```
(base) jaibhatoa@Jais-MacBook-Pro ~ % gcloud init                                                          Welcome! This command will
take you through the configuration of gcloud.

Settings from your current configuration [other-account-config] are:
compute:
  region: europe-north1   zone:
europe-north1-a core:   account:
bhatoajaii@gmail.com
disable_usage_reporting: 'True'
project: glass-potion-419508

Pick configuration to use:
 [1] Re-initialize this configuration [other-account-config] with new settings  [2] Create a
new configuration
[3]  Switch to and re-initialize existing configuration: [default]
[4]  Switch to and re-initialize existing configuration: [other-account-config1] [5] Switch to and re-initialize existing configuration: [other-account-config2] Please enter your numeric choice:
     5

Your current configuration has been set to: [other-account-config2]

You can skip diagnostics next time by using the following flag:   gcloud init
--skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.                                                                                                                                                            Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

Choose the account you would like to use to perform operations for this configuration:
[1]  bhatoajaii@gmail.com
[2]  bhatoasunder@gmail.com [3] jaibhatoa6@gmail.com
[4]  monabhatoa1970@gmail.com
[5]  Log in with a new account
Please enter your numeric choice:  2

You are logged in as: [bhatoasunder@gmail.com].

Pick cloud project to use:
[1]  steady-beaker-419510
[2]  Enter a project ID
[3]  Create a new project
Please enter numeric choice or text value (must exactly match list item):  1

 Your current project has been set to: [steady-beaker-419510].-----------------------------------------------------------------------------------------------------------------------------------------------
 [1] us-east1----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------- b

 [2] us-east1----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------- c

 [3] us-east1-d [4] us-east4------------------------------------------------------------------------------------------------------------------------------------------------------------------------------ c


Do you want to configure a default Compute Region and Zone? (Y/n)?  Y

Which Google Compute Engine zone would you like to use as project default?
If you do not specify a zone via a command line flag while working with Compute Engine resources, the default is assumed.
[5]   us-east4-b
[6]   us-east4-a
[7]   us-central1-c
[8]   us-central1-a
[9]   us-central1-f
[10]  us-central1-b
[11]  us-west1-b
[12]  us-west1-c
[13]  us-west1-a
[14]  europe-west4-a
[15]  europe-west4-b
[16]  europe-west4-c
[17]  europe-west1-b
[18]  europe-west1-d
[19]  europe-west1-c
[20]  europe-west3-c
[21]  europe-west3-a
[22]  europe-west3-b
[23]  europe-west2-c
[24]  europe-west2-b
[25]  europe-west2-a
[26]  asia-east1-b
[27]  asia-east1-a
[28]  asia-east1-c
[29]  asia-southeast1-b
[30]  asia-southeast1-a
[31]  asia-southeast1-c
[32]  asia-northeast1-b
[33]  asia-northeast1-c
[34]  asia-northeast1-a
[35]  asia-south1-c
[36]  asia-south1-b
[37]  asia-south1-a
[38]  australia-southeast1-b
[39]  australia-southeast1-c
[40]  australia-southeast1-a
[41]  southamerica-east1-b
[42]  southamerica-east1-c
[43]  southamerica-east1-a
[44]  africa-south1-a
[45]  africa-south1-b
[46]  africa-south1-c
[47]  asia-east2-a
[48]  asia-east2-b
[49]  asia-east2-c
[50]  asia-northeast2-a
Did not print [72] options.
Too many options [122]. Enter "list" at prompt to print choices fully.
Please enter numeric choice or text value (must exactly match list item):  65

Your project default Compute Engine zone has been set to [europe-central2-a]. You can change
it by running [gcloud config set compute/zone NAME].

Your project default Compute Engine region has been set to [europe-central2]. You can change
it by running [gcloud config set compute/region NAME].

Your Google Cloud SDK is configured and ready to use!

* Commands that require authentication will use bhatoasunder@gmail.com by default
* Commands will reference project `steady-beaker-419510` by default
* Compute Engine commands will use region `europe-central2` by default
* Compute Engine commands will use zone `europe-central2-a` by default

Run `gcloud help config` to learn how to change individual settings

This gcloud configuration is called [other-account-config2]. You can create additional configurations if you work with multiple accounts and/or projects. Run `gcloud topic
configurations` to learn more.

Some things to try next:

* Run `gcloud --help` to see the Cloud Platform services you can interact with. And run `gcloud help COMMAND` to get help on any gcloud command.
* Run `gcloud topic --help` to learn about advanced features of the SDK like arg files and output formatting
* Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` commands.
(base) jaibhatoa@Jais-MacBook-Pro ~ % gcloud compute instances start "vm4--jb--3d--mri--pre-processing" --zone="europe-central2-a"
Starting instance(s) vm4--jb--3d--mri--pre-processing...done.
Updated [https://compute.googleapis.com/compute/v1/projects/steady-beaker-419510/zones/europe-central2-a/instances/vm4--jb--3d--mri--pre-processing].
Instance internal IP is 10.186.0.2
Instance external IP is 34.116.184.126
(base) jaibhatoa@Jais-MacBook-Pro ~ % gcloud compute ssh vm4--jb--3d--mri--pre-processing --zone=europe-central2-a

Enter passphrase for key '/Users/jaibhatoa/.ssh/google_compute_engine':
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1016-gcp x86_64)

* Documentation:  https://help.ubuntu.com
* Management:     https://landscape.canonical.com * Support:        https://ubuntu.com/pro

  System information as of Sat Apr 13 09:46:35 UTC 2024

  System load:  0.0                 Processes:             174
  Usage of /:   16.8% of 193.65GB   Users logged in:       0
  Memory usage: 1%                  IPv4 address for ens4: 10.186.0.2   Swap usage:
0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s   just raised
  the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge Expanded Security

Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


Last login: Tue Apr  9 08:13:15 2024 from 77.88.112.226

jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ gcloud auth login

You are running on a Google Compute Engine virtual machine.
It is recommended that you use service accounts for authentication.

You can run:

  $ gcloud config set account `ACCOUNT` to

switch accounts if necessary.

Your credentials may be visible to others with access to this virtual
machine. Are you sure you want to authenticate with your personal
account?

Do you want to continue (Y/n)?  Y Go to the

following link in your browser:

    https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=https%3A%2F%2Fsdk.cloud.google.com%2Fauthcode.html&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https
%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2
Fauth%2Faccounts.reauth&state=cPy3yk8RKvyrfbXuDne3BroJScSOiK&prompt=consent&token_usage=remote&access_type=offline&code_challenge=oeZ2dM1MyCv2sEdtjHUCy3jjxC5D8JySGQIl-OcfCfM&code_challenge_method=S256

Enter authorization code: 4/0AeaYSHD6c6SSZATbJ6VNJAkfmUlGNJIOjyhaQdgXeTSU5mlqe4WJBlPKzj36nt9yTDls4w

You are now logged in as [bhatoasunder@gmail.com].
Your current project is [steady-beaker-419510].  You can change this setting by running:
  $ gcloud config set project PROJECT_ID
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ wget https://surfer.nmr.mgh.harvard.edu/pub/dist/freesurfer/7.4.1/freesurfer_ubuntu22-7.4.1_amd64.deb
--2024-04-07 12:16:55--  https://surfer.nmr.mgh.harvard.edu/pub/dist/freesurfer/7.4.1/freesurfer_ubuntu22-7.4.1_amd64.deb
Resolving surfer.nmr.mgh.harvard.edu (surfer.nmr.mgh.harvard.edu)... 132.183.1.43
Connecting to surfer.nmr.mgh.harvard.edu (surfer.nmr.mgh.harvard.edu)|132.183.1.43|:443... connected.
HTTP request sent, awaiting response... 200 OK
```

```
Length: 6993078466 (6.5G) [application/vnd.debian.binary-package] Saving to:
'freesurfer_ubuntu22-7.4.1_amd64.deb'

freesurfer_ubuntu22-7.4.1_amd64.deb                 100%[=============================================================================================================================>]   6.51G  28.0MB/s    in 4m 2s

2024-04-07 12:20:58 (27.6 MB/s) - 'freesurfer_ubuntu22-7.4.1_amd64.deb' saved [6993078466/6993078466]
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ sudo apt-get update Get:1
http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1303 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [233 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1616 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [271 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [852 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [163 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Get:14 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:15 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:16 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:17 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:18 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:19 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:20 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:21 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1519 kB]
Get:22 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [293 kB]
Get:23 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1648 kB]
Get:24 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [275 kB]
Get:25 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1060 kB]
Get:26 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [241 kB]
Get:27 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:28 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [49.6 kB]
Get:29 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [12.0 kB]
Get:30 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:31 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.1 kB]
Get:32 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.0 kB]
Get:33 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:34 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:35 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.4 kB]
Get:36 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.2 kB]
Get:37 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:38 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B] Fetched 30.4 MB in
4s (8102 kB/s)                  Reading package lists... Done
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:  apt apt-utils bsdextrautils bsdutils coreutils curl eject ethtool fdisk libapt-pkg6.0 libblkid1 libcurl3-gnutls libcurl4 libfdisk1 libmount1 libsmartcols1 libuuid1 mount snapd update-notifier-common util-linux
uuid-runtime
22 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 31.8 MB of archives.
After this operation, 1589 kB disk space will be freed. Do you
want to continue? [Y/n] Y
Get:1 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 bsdutils amd64 1:2.37.2-4ubuntu3.3 [81.5 kB]
Get:2 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 coreutils amd64 8.32-4.1ubuntu1.2 [1437 kB]
Get:3 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 util-linux amd64 2.37.2-4ubuntu3.3 [1063 kB]
Get:4 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapt-pkg6.0 amd64 2.4.12 [912 kB]
Get:5 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apt amd64 2.4.12 [1363 kB]
Get:6 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apt-utils amd64 2.4.12 [211 kB]
Get:7 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mount amd64 2.37.2-4ubuntu3.3 [114 kB]
Get:8 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libsmartcols1 amd64 2.37.2-4ubuntu3.3 [51.5 kB]
Get:9 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libuuid1 amd64 2.37.2-4ubuntu3.3 [24.4 kB]
Get:10 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 uuid-runtime amd64 2.37.2-4ubuntu3.3 [32.0 kB]
Get:11 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 update-notifier-common all 3.192.54.8 [185 kB] Get:12
http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libblkid1 amd64 2.37.2-4ubuntu3.3 [104 kB]
Get:13 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libmount1 amd64 2.37.2-4ubuntu3.3 [122 kB]
Get:14 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 eject amd64 2.37.2-4ubuntu3.3 [26.8 kB]
Get:15 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 bsdextrautils amd64 2.37.2-4ubuntu3.3 [71.4 kB]
Get:16 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 curl amd64 7.81.0-1ubuntu1.16 [194 kB]
Get:17 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl4 amd64 7.81.0-1ubuntu1.16 [290 kB]
Get:18 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 ethtool amd64 1:5.16-1ubuntu0.1 [207 kB]
Get:19 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libfdisk1 amd64 2.37.2-4ubuntu3.3 [140 kB]
Get:20 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 fdisk amd64 2.37.2-4ubuntu3.3 [122 kB]
Get:21 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl3-gnutls amd64 7.81.0-1ubuntu1.16 [284 kB] Get:22
http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 snapd amd64 2.61.3+22.04 [24.7 MB] Fetched 31.8 MB in 1s (35.7 MB/s)
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../bsdutils_1%3a2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking bsdutils (1:2.37.2-4ubuntu3.3) over (1:2.37.2-4ubuntu3) ...
Setting up bsdutils (1:2.37.2-4ubuntu3.3) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../coreutils_8.32-4.1ubuntu1.2_amd64.deb ...
Unpacking coreutils (8.32-4.1ubuntu1.2) over (8.32-4.1ubuntu1.1) ...
Setting up coreutils (8.32-4.1ubuntu1.2) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../util-linux_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking util-linux (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Setting up util-linux (2.37.2-4ubuntu3.3) ...
fstrim.service is a disabled or a static unit not running, not starting it. (Reading database
... 66054 files and directories currently installed.)
Preparing to unpack .../libapt-pkg6.0_2.4.12_amd64.deb ...
Unpacking libapt-pkg6.0:amd64 (2.4.12) over (2.4.11) ...
Setting up libapt-pkg6.0:amd64 (2.4.12) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../archives/apt_2.4.12_amd64.deb ...
Unpacking apt (2.4.12) over (2.4.11) ...
Setting up apt (2.4.12) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../apt-utils_2.4.12_amd64.deb ...
Unpacking apt-utils (2.4.12) over (2.4.11) ...
Preparing to unpack .../mount_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking mount (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Preparing to unpack .../libsmartcols1_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking libsmartcols1:amd64 (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Setting up libsmartcols1:amd64 (2.37.2-4ubuntu3.3) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../libuuid1_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking libuuid1:amd64 (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ... Setting up
libuuid1:amd64 (2.37.2-4ubuntu3.3) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../uuid-runtime_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking uuid-runtime (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Preparing to unpack .../update-notifier-common_3.192.54.8_all.deb ...
Unpacking update-notifier-common (3.192.54.8) over (3.192.54.6) ...
Preparing to unpack .../libblkid1_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking libblkid1:amd64 (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Setting up libblkid1:amd64 (2.37.2-4ubuntu3.3) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../libmount1_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking libmount1:amd64 (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Setting up libmount1:amd64 (2.37.2-4ubuntu3.3) ...
(Reading database ... 66054 files and directories currently installed.)
Preparing to unpack .../0-eject_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking eject (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Preparing to unpack .../1-bsdextrautils_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking bsdextrautils (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Preparing to unpack .../2-curl_7.81.0-1ubuntu1.16_amd64.deb ...
Unpacking curl (7.81.0-1ubuntu1.16) over (7.81.0-1ubuntu1.15) ...
Preparing to unpack .../3-libcurl4_7.81.0-1ubuntu1.16_amd64.deb ...
Unpacking libcurl4:amd64 (7.81.0-1ubuntu1.16) over (7.81.0-1ubuntu1.15) ...
Preparing to unpack .../4-ethtool_1%3a5.16-1ubuntu0.1_amd64.deb ... Unpacking ethtool
(1:5.16-1ubuntu0.1) over (1:5.16-1) ...
Preparing to unpack .../5-libfdisk1_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking libfdisk1:amd64 (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Preparing to unpack .../6-fdisk_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking fdisk (2.37.2-4ubuntu3.3) over (2.37.2-4ubuntu3) ...
Preparing to unpack .../7-libcurl3-gnutls_7.81.0-1ubuntu1.16_amd64.deb ...
Unpacking libcurl3-gnutls:amd64 (7.81.0-1ubuntu1.16) over (7.81.0-1ubuntu1.15) ...
Preparing to unpack .../8-snapd_2.61.3+22.04_amd64.deb ...
Unpacking snapd (2.61.3+22.04) over (2.58+22.04.1) ...
Setting up snapd (2.61.3+22.04) ...
Installing new version of config file /etc/apparmor.d/usr.lib.snapd.snap-confine.real ...
snapd.failure.service is a disabled or a static unit not running, not starting it.
snapd.snap-repair.service is a disabled or a static unit not running, not starting it.
Failed to restart snapd.mounts-pre.target: Operation refused, unit snapd.mounts-pre.target may be requested by dependency only (it is configured to refuse manual start/stop). See system logs and
'systemctl status snapd.mounts-pre.target' for details.
Could not execute systemctl:  at /usr/bin/deb-systemd-invoke line 142.
Setting up apt-utils (2.4.12) ...
Setting up bsdextrautils (2.37.2-4ubuntu3.3) ... Setting up
update-notifier-common (3.192.54.8) ...
update-notifier-download.service is a disabled or a static unit not running, not starting it. update-notifier-motd.service is a disabled or
a static unit not running, not starting it.
Setting up libcurl3-gnutls:amd64 (7.81.0-1ubuntu1.16) ...
Setting up eject (2.37.2-4ubuntu3.3) ...
Setting up libfdisk1:amd64 (2.37.2-4ubuntu3.3) ...
Setting up mount (2.37.2-4ubuntu3.3) ... Setting up
uuid-runtime (2.37.2-4ubuntu3.3) ...
uuidd.service is a disabled or a static unit not running, not starting it.
Setting up libcurl4:amd64 (7.81.0-1ubuntu1.16) ...
Setting up curl (7.81.0-1ubuntu1.16) ...
Setting up ethtool (1:5.16-1ubuntu0.1) ...
Setting up fdisk (2.37.2-4ubuntu3.3) ...
Processing triggers for install-info (6.8-4build1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.6) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Scanning processes...
Scanning candidates...

Scanning linux images...


Running kernel seems to be up-to-date.

Restarting services...
Service restarts being deferred:
 systemctl restart getty@tty1.service  systemctl
restart networkd-dispatcher.service  systemctl restart
packagekit.service  systemctl restart polkit.service
systemctl restart rsyslog.service  systemctl restart
serial-getty@ttyS0.service  systemctl restart
systemd-journald.service  systemctl restart
systemd-logind.service
/etc/needrestart/restart.d/systemd-manager  systemctl
restart systemd-networkd.service  systemctl restart
systemd-resolved.service  systemctl restart
systemd-udevd.service  systemctl restart
unattended-upgrades.service  systemctl restart
user@1001.service

No containers need to be restarted.

No user sessions are running outdated binaries.
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ sudo apt install ./freesurfer_ubuntu22-7.4.1_amd64.deb Reading package
lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'freesurfer' instead of './freesurfer_ubuntu22-7.4.1_amd64.deb'
The following additional packages will be installed:   bzip2 cpp cpp-11 csh fontconfig-config fonts-dejavu-core gcc-11-base gettext language-pack-en language-pack-en-base libbrotli-dev libc-dev-bin libc-devtools libc6-dev libcrypt-dev libdeflate0 libdmx-dev libdmx1 libdpkg-perl
libdrm-amdgpu1 libdrm-dev   libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libegl-mesa0 libegl1 libepoxy0 libevdev2 libexpat1-dev libfile-fcntllock-perl libfontconfig-dev libfontconfig1 libfontconfig1-dev libfontenc-dev libfontenc1 libfreetype-dev libfreetype6-dev libfs-dev libfs6   libgbm1
libgd3 libgl-dev libgl1 libgl1-amber-dri libgl1-mesa-dri libglapi-mesa libglu1-mesa libglvnd0 libglx-dev libglx-mesa0 libglx0 libgomp1 libgudev-1.0-0 libice-dev libice6 libinput-bin libinput10 libisl23 libjbig0 libjpeg-turbo8 libjpeg62   libjpeg8 libllvm15 libmpc3 libmtdev1 libncurses5
libnsl-dev libopengl0 libpciaccess-dev libpciaccess0 libpixman-1-0 libpixman-1-dev libpng-dev libpng-tools libpthread-stubs0-dev libquadmath0 libsensors-config libsensors5 libsm-dev libsm6 libtiff5   libtinfo5 libtirpc-dev libvulkan1 libwacom-bin libwacom-common libwacom9
libwayland-client0 libwayland-cursor0 libwayland-server0 libwebp7 libx11-dev libx11-xcb1 libxatracker2 libxau-dev libxaw7 libxaw7-dev libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0   libxcb-icccm4 libxcb-image0 libxcb-keysyms1 libxcb-present0 libxcb-randr0 libxcb-render-util0 libxcb-render0
libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-util1 libxcb-xfixes0 libxcb-xinerama0 libxcb-xinput0 libxcb-xkb1 libxcb1-dev libxcomposite-dev   libxcomposite1 libxcursor-dev libxcursor1 libxcvt-dev libxcvt0 libxdamage-dev libxdamage1 libxdmcp-dev libxext-dev libxfixes-dev libxfixes3
libxfont-dev libxfont2 libxft-dev libxft2 libxi-dev libxi6 libxinerama-dev libxinerama1 libxkbcommon-x11-0   libxkbcommon0 libxkbfile-dev libxkbfile1 libxmu-dev libxmu-headers libxmu6 libxmuu-dev libxpm-dev libxpm4 libxrandr-dev libxrandr2 libxrender-dev libxrender1 libxres-dev libxres1
libxshmfence1 libxss-dev libxss1 libxt-dev libxt6 libxtst-dev libxtst6   libxv-dev libxv1 libxvmc-dev libxvmc1 libxxf86dga-dev libxxf86dga1 libxxf86vm-dev libxxf86vm1 linux-libc-dev make manpages-dev mesa-common-dev mesa-vulkan-drivers pkg-config rpcsvc-proto tcsh uuid-dev x11-apps
x11-common x11-session-utils x11-utils   x11-xkb-utils x11-xserver-utils x11proto-dev xbitmaps xcvt xfonts-base xfonts-encodings xfonts-scalable xfonts-utils xinit xinput xorg xorg-dev xorg-docs-core xorg-sgml-doctools xserver-common xserver-xorg xserver-xorg-core xserver-xorg-dev
xserver-xorg-input-all xserver-xorg-input-libinput xserver-xorg-input-wacom xserver-xorg-legacy xserver-xorg-video-all xserver-xorg-video-amdgpu xserver-xorg-video-ati xserver-xorg-video-fbdev xserver-xorg-video-intel xserver-xorg-video-nouveau   xserver-xorg-video-qxl
xserver-xorg-video-radeon xserver-xorg-video-vesa xserver-xorg-video-vmware xterm xtrans-dev zlib1g-dev
Suggested packages:   bzip2-doc cpp-doc gcc-11-locales gettext-doc autopoint libasprintf-dev libgettextpo-dev glibc-doc debian-keyring gcc | c-compiler bzr freetype2-doc libgd-tools libice-doc lm-sensors libsm-doc libx11-doc libxaw-doc libxcb-doc libxext-doc libxt-doc
  make-doc dpkg-dev mesa-utils nickle cairo-5c xorg-docs xfonts-100dpi xfonts-75dpi x11-xfs-utils xfonts-100dpi | xfonts-75dpi firmware-amd-graphics xserver-xorg-video-r128 xserver-xorg-video-mach64 firmware-misc-nonfree xfonts-cyrillic
The following NEW packages will be installed:
  bzip2 cpp cpp-11 csh fontconfig-config fonts-dejavu-core freesurfer gcc-11-base gettext language-pack-en language-pack-en-base libbrotli-dev libc-dev-bin libc-devtools libc6-dev libcrypt-dev libdeflate0 libdmx-dev libdmx1 libdpkg-perl libdrm-amdgpu1   libdrm-dev libdrm-intel1
libdrm-nouveau2 libdrm-radeon1 libegl-mesa0 libegl1 libepoxy0 libevdev2 libexpat1-dev libfile-fcntllock-perl libfontconfig-dev libfontconfig1 libfontconfig1-dev libfontenc-dev libfontenc1 libfreetype-dev libfreetype6-dev   libfs-dev libfs6 libgbm1 libgd3 libgl-dev libgl1 libgl1-amber-dri
libgl1-mesa-dri libglapi-mesa libglu1-mesa libglvnd0 libglx-dev libglx-mesa0 libglx0 libgomp1 libgudev-1.0-0 libice-dev libice6 libinput-bin libinput10 libisl23 libjbig0 libjpeg-turbo8   libjpeg62 libjpeg8 libllvm15 libmpc3 libmtdev1 libncurses5 libnsl-dev libopengl0 libpciaccess-dev
libpciaccess0 libpixman-1-0 libpixman-1-dev libpng-dev libpng-tools libpthread-stubs0-dev libquadmath0 libsensors-config libsensors5 libsm-dev libsm6   libtiff5 libtinfo5 libtirpc-dev libvulkan1 libwacom-bin libwacom-common libwacom9 libwayland-client0 libwayland-cursor0 libwayland-server0
libwebp7 libx11-dev libx11-xcb1 libxatracker2 libxau-dev libxaw7 libxaw7-dev libxcb-dri2-0 libxcb-dri3-0   libxcb-glx0 libxcb-icccm4 libxcb-image0 libxcb-keysyms1 libxcb-present0 libxcb-randr0 libxcb-render-util0 libxcb-render0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-util1
libxcb-xfixes0 libxcb-xinerama0 libxcb-xinput0 libxcb-xkb1 libxcb1-dev   libxcomposite-dev libxcomposite1 libxcursor-dev libxcursor1 libxcvt-dev libxcvt0 libxdamage-dev libxdamage1 libxdmcp-dev libxext-dev libxfixes-dev libxfixes3 libxfont-dev libxfont2 libxft-dev libxft2 libxi-dev libxi6
libxinerama-dev libxinerama1   libxkbcommon-x11-0 libxkbcommon0 libxkbfile-dev libxkbfile1 libxmu-dev libxmu-headers libxmu6 libxmuu-dev libxpm-dev libxpm4 libxrandr-dev libxrandr2 libxrender-dev libxrender1 libxres-dev libxres1 libxshmfence1 libxss-dev libxss1 libxt-dev libxt6
libxtst-dev libxtst6 libxv-dev libxv1 libxvmc-dev libxvmc1 libxxf86dga-dev libxxf86dga1 libxxf86vm-dev libxxf86vm1 linux-libc-dev make manpages-dev mesa-common-dev mesa-vulkan-drivers pkg-config rpcsvc-proto tcsh uuid-dev x11-apps x11-common   x11-session-utils x11-utils x11-xkb-utils
x11-xserver-utils x11proto-dev xbitmaps xcvt xfonts-base xfonts-encodings xfonts-scalable xfonts-utils xinit xinput xorg xorg-dev xorg-docs-core xorg-sgml-doctools xserver-common xserver-xorg xserver-xorg-core
  xserver-xorg-dev xserver-xorg-input-all xserver-xorg-input-libinput xserver-xorg-input-wacom xserver-xorg-legacy xserver-xorg-video-all xserver-xorg-video-amdgpu xserver-xorg-video-ati xserver-xorg-video-fbdev xserver-xorg-video-intel   xserver-xorg-video-nouveau xserver-xorg-video-qxl
xserver-xorg-video-radeon xserver-xorg-video-vesa xserver-xorg-video-vmware xterm xtrans-dev zlib1g-dev
0 upgraded, 217 newly installed, 0 to remove and 0 not upgraded.
Need to get 97.1 MB/7090 MB of archives.
After this operation, 19.5 GB of additional disk space will be used. Do you want
to continue? [Y/n] Y
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Get:2 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 language-pack-en all 1:22.04+20240212 [1900 B]
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Get:4 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gcc-11-base amd64 11.4.0-1ubuntu1~22.04 [20.2 kB]
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Get:10 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 fonts-dejavu-core all 2.37-2build1 [1041 kB]
Get:11 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 fontconfig-config all 2.13.1-4.2ubuntu5 [29.1 kB]
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Get:13 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 x11proto-dev all 2021.5-1 [604 kB]
Get:14 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxau-dev amd64 1:1.0.9-1build5 [9724 B]
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Get:16 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xtrans-dev all 1.4.0-1 [68.9 kB]
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Get:19 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libx11-dev amd64 2:1.7.5-1ubuntu0.3 [744 kB] Get:20
http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgomp1 amd64 12.3.0-1ubuntu1~22.04 [126 kB]
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Get:35 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxfixes3 amd64 1:6.0.0-1 [11.7 kB]
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Get:38 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 x11-apps amd64 7.7+8build2 [719 kB]
Get:39 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 make amd64 4.3-4.1build1 [180 kB]
Get:40 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/universe amd64 tcsh amd64 6.21.00-1.1 [422 kB]
Get:41 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 x11-xkb-utils amd64 7.7+5build4 [172 kB]
Get:42 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-common all 2:21.1.4-2ubuntu1.7~22.04.9 [28.5 kB]
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Get:46 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgbm1 amd64 23.2.1-1ubuntu3.1~22.04.2 [33.5 kB]
Get:47 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libglapi-mesa amd64 23.2.1-1ubuntu3.1~22.04.2 [37.1 kB]
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Get:49 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libx11-xcb1 amd64 2:1.7.5-1ubuntu0.3 [7802 B]
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Get:51 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxcb-dri3-0 amd64 1.14-3ubuntu3 [6968 B]
Get:52 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxcb-present0 amd64 1.14-3ubuntu3 [5734 B]
Get:53 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxcb-sync1 amd64 1.14-3ubuntu3 [9416 B]
Get:54 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxcb-xfixes0 amd64 1.14-3ubuntu3 [9996 B]
Get:55 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxshmfence1 amd64 1.3-1build4 [5394 B]
Get:56 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libegl-mesa0 amd64 23.2.1-1ubuntu3.1~22.04.2 [118 kB]
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Get:59 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxcb-glx0 amd64 1.14-3ubuntu3 [25.9 kB]
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Get:62 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libdrm-amdgpu1 amd64 2.4.113-2~ubuntu0.22.04.1 [19.9 kB]
Get:63 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libpciaccess0 amd64 0.16-3 [19.1 kB]
Get:64 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libdrm-intel1 amd64 2.4.113-2~ubuntu0.22.04.1 [66.7 kB]
Get:65 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libdrm-nouveau2 amd64 2.4.113-2~ubuntu0.22.04.1 [17.5 kB]
Get:66 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libdrm-radeon1 amd64 2.4.113-2~ubuntu0.22.04.1 [21.6 kB] Get:67
http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libllvm15 amd64 1:15.0.7-0ubuntu0.22.04.3 [25.4 MB]
Get:68 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libsensors-config all 1:3.6.0-7ubuntu1 [5274 B]

Get:69 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libsensors5 amd64 1:3.6.0-7ubuntu1 [26.3 kB]

Get:70 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgl1-mesa-dri amd64 23.2.1-1ubuntu3.1~22.04.2 [8860 kB]

Get:71 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libglx-mesa0 amd64 23.2.1-1ubuntu3.1~22.04.2 [158 kB]

Get:72 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libglx0 amd64 1.4.0-1 [41.0 kB]

Get:73 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libgl1 amd64 1.4.0-1 [110 kB]

Get:74 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpixman-1-0 amd64 0.40.0-1ubuntu0.22.04.1 [264 kB]

Get:75 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxcvt0 amd64 0.1.1-3 [5494 B]

Get:76 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libfontenc1 amd64 1:1.1.4-1build3 [14.7 kB]

Get:77 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxfont2 amd64 1:2.0.5-1build1 [94.5 kB]

Get:78 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-xorg-core amd64 2:21.1.4-2ubuntu1.7~22.04.9 [1477 kB]

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Get:89 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxrandr2 amd64 2:1.5.2-1build1 [20.4 kB]

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http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xfonts-encodings all 1:1.0.5-0ubuntu2 [578 kB]

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Get:115 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libtirpc-dev amd64 1.3.2-2ubuntu0.1 [192 kB]

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Get:117 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libc6-dev amd64 2.35-0ubuntu3.6 [2100 kB]

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Get:133 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxcursor-dev amd64 1:1.2.0-2build4 [28.2 kB]

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Get:135 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 libxdamage-dev amd64 1:1.1.5-2build2 [5264 B]

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Get:209 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-xorg-video-ati amd64 1:19.1.0-2ubuntu1 [7302 B]

Get:210 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xserver-xorg-video-fbdev amd64 1:0.5.0-2build1 [13.3 kB]

Get:211 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xserver-xorg-video-nouveau amd64 1:1.0.17-2build1 [93.6 kB]

Get:212 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xserver-xorg-video-vesa amd64 1:2.5.0-1build4 [15.9 kB]

Get:213 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xserver-xorg-video-vmware amd64 1:13.3.0-3build1 [77.9 kB]

Get:214 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xserver-xorg-video-all amd64 1:7.7+23ubuntu2 [4110 B]

Get:215 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/main amd64 xserver-xorg-video-qxl amd64 0.1.5+git20200331-3 [83.0 kB]

Get:216 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-xorg-legacy amd64 2:21.1.4-2ubuntu1.7~22.04.9 [35.2 kB]

```
Get:217 /home/jaibhatoa/freesurfer_ubuntu22-7.4.1_amd64.deb freesurfer amd64 7.4.1 [6993 MB]

Fetched 97.1 MB in 30s (3277 kB/s)

Extracting templates from packages: 100%
Preconfiguring packages ...
Selecting previously unselected package language-pack-en-base.
(Reading database ... 66051 files and directories currently installed.)
Preparing to unpack .../000-language-pack-en-base_1%3a22.04+20240212_all.deb ...
Unpacking language-pack-en-base (1:22.04+20240212) ...
Selecting previously unselected package language-pack-en.
Preparing to unpack .../001-language-pack-en_1%3a22.04+20240212_all.deb ...
Unpacking language-pack-en (1:22.04+20240212) ...
Selecting previously unselected package bzip2.
Preparing to unpack .../002-bzip2_1.0.8-5build1_amd64.deb ...
Unpacking bzip2 (1.0.8-5build1) ...
Selecting previously unselected package gcc-11-base:amd64.
Preparing to unpack .../003-gcc-11-base_11.4.0-1ubuntu1~22.04_amd64.deb ...
Unpacking gcc-11-base:amd64 (11.4.0-1ubuntu1~22.04) ...
Selecting previously unselected package libisl23:amd64.
Preparing to unpack .../004-libisl23_0.24-2build1_amd64.deb ...
Unpacking libisl23:amd64 (0.24-2build1) ...
Selecting previously unselected package libmpc3:amd64.
Preparing to unpack .../005-libmpc3_1.2.1-2build1_amd64.deb ...
Unpacking libmpc3:amd64 (1.2.1-2build1) ...
Selecting previously unselected package cpp-11.
Preparing to unpack .../006-cpp-11_11.4.0-1ubuntu1~22.04_amd64.deb ...
Unpacking cpp-11 (11.4.0-1ubuntu1~22.04) ...
Selecting previously unselected package cpp.
Preparing to unpack .../007-cpp_4%3a11.2.0-1ubuntu1_amd64.deb ...
Unpacking cpp (4:11.2.0-1ubuntu1) ...
Selecting previously unselected package csh.
Preparing to unpack .../008-csh_20110502-7_amd64.deb ...
Unpacking csh (20110502-7) ...
Selecting previously unselected package fonts-dejavu-core.
Preparing to unpack .../009-fonts-dejavu-core_2.37-2build1_all.deb ...
Unpacking fonts-dejavu-core (2.37-2build1) ...
Selecting previously unselected package fontconfig-config.
Preparing to unpack .../010-fontconfig-config_2.13.1-4.2ubuntu5_all.deb ...
Unpacking fontconfig-config (2.13.1-4.2ubuntu5) ...
Selecting previously unselected package xorg-sgml-doctools.
Preparing to unpack .../011-xorg-sgml-doctools_1%3a1.11-1.1_all.deb ...
Unpacking xorg-sgml-doctools (1:1.11-1.1) ...
Selecting previously unselected package x11proto-dev.
Preparing to unpack .../012-x11proto-dev_2021.5-1_all.deb ...
Unpacking x11proto-dev (2021.5-1) ...
Selecting previously unselected package libxau-dev:amd64.
Preparing to unpack .../013-libxau-dev_1%3a1.0.9-1build5_amd64.deb ...
Unpacking libxau-dev:amd64 (1:1.0.9-1build5) ...
Selecting previously unselected package libxdmcp-dev:amd64.
Preparing to unpack .../014-libxdmcp-dev_1%3a1.1.3-0ubuntu5_amd64.deb ...
Unpacking libxdmcp-dev:amd64 (1:1.1.3-0ubuntu5) ...
Selecting previously unselected package xtrans-dev.
Preparing to unpack .../015-xtrans-dev_1.4.0-1_all.deb ...
Unpacking xtrans-dev (1.4.0-1) ...
Selecting previously unselected package libpthread-stubs0-dev:amd64.
Preparing to unpack .../016-libpthread-stubs0-dev_0.4-1build2_amd64.deb ...
Unpacking libpthread-stubs0-dev:amd64 (0.4-1build2) ...
Selecting previously unselected package libxcb1-dev:amd64.
Preparing to unpack .../017-libxcb1-dev_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb1-dev:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libx11-dev:amd64.
Preparing to unpack .../018-libx11-dev_2%3a1.7.5-1ubuntu0.3_amd64.deb ...
Unpacking libx11-dev:amd64 (2:1.7.5-1ubuntu0.3) ...
Selecting previously unselected package libgomp1:amd64.
Preparing to unpack .../019-libgomp1_12.3.0-1ubuntu1~22.04_amd64.deb ...
Unpacking libgomp1:amd64 (12.3.0-1ubuntu1~22.04) ...
Selecting previously unselected package gettext.
Preparing to unpack .../020-gettext_0.21-4ubuntu4_amd64.deb ...
Unpacking gettext (0.21-4ubuntu4) ...
Selecting previously unselected package xbitmaps.
Preparing to unpack .../021-xbitmaps_1.1.1-2.1ubuntu1_all.deb ...
Unpacking xbitmaps (1.1.1-2.1ubuntu1) ...
Selecting previously unselected package libfontconfig1:amd64.
Preparing to unpack .../022-libfontconfig1_2.13.1-4.2ubuntu5_amd64.deb ...
Unpacking libfontconfig1:amd64 (2.13.1-4.2ubuntu5) ...
Selecting previously unselected package x11-common.
Preparing to unpack .../023-x11-common_1%3a7.7+23ubuntu2_all.deb ...
Unpacking x11-common (1:7.7+23ubuntu2) ...
Selecting previously unselected package libice6:amd64.
Preparing to unpack .../024-libice6_2%3a1.0.10-1build2_amd64.deb ...
Unpacking libice6:amd64 (2:1.0.10-1build2) ...
Selecting previously unselected package libsm6:amd64.
Preparing to unpack .../025-libsm6_2%3a1.2.3-1build2_amd64.deb ...
Unpacking libsm6:amd64 (2:1.2.3-1build2) ...
Selecting previously unselected package libxt6:amd64.
Preparing to unpack .../026-libxt6_1%3a1.2.1-1_amd64.deb ...
Unpacking libxt6:amd64 (1:1.2.1-1) ...
Selecting previously unselected package libxmu6:amd64.
Preparing to unpack .../027-libxmu6_2%3a1.1.3-3_amd64.deb ...
Unpacking libxmu6:amd64 (2:1.1.3-3) ...
Selecting previously unselected package libxpm4:amd64.
Preparing to unpack .../028-libxpm4_1%3a3.5.12-1ubuntu0.22.04.2_amd64.deb ...
Unpacking libxpm4:amd64 (1:3.5.12-1ubuntu0.22.04.2) ...
Selecting previously unselected package libxaw7:amd64.
Preparing to unpack .../029-libxaw7_2%3a1.0.14-1_amd64.deb ...
Unpacking libxaw7:amd64 (2:1.0.14-1) ...
Selecting previously unselected package libxrender1:amd64.
Preparing to unpack .../030-libxrender1_1%3a0.9.10-1build4_amd64.deb ...
Unpacking libxrender1:amd64 (1:0.9.10-1build4) ...
Selecting previously unselected package libxft2:amd64.
Preparing to unpack .../031-libxft2_2.3.4-1_amd64.deb ...
Unpacking libxft2:amd64 (2.3.4-1) ...
Selecting previously unselected package libxinerama1:amd64.
Preparing to unpack .../032-libxinerama1_2%3a1.1.4-3_amd64.deb ...
Unpacking libxinerama1:amd64 (2:1.1.4-3) ...
Selecting previously unselected package xterm.
Preparing to unpack .../033-xterm_372-1ubuntu1_amd64.deb ...
Unpacking xterm (372-1ubuntu1) ...
Selecting previously unselected package libxfixes3:amd64.
Preparing to unpack .../034-libxfixes3_1%3a6.0.0-1_amd64.deb ...
Unpacking libxfixes3:amd64 (1:6.0.0-1) ...
Selecting previously unselected package libxcursor1:amd64.
Preparing to unpack .../035-libxcursor1_1%3a1.2.0-2build4_amd64.deb ...
Unpacking libxcursor1:amd64 (1:1.2.0-2build4) ...
Selecting previously unselected package libxkbfile1:amd64.
Preparing to unpack .../036-libxkbfile1_1%3a1.1.0-1build3_amd64.deb ...
Unpacking libxkbfile1:amd64 (1:1.1.0-1build3) ...
Selecting previously unselected package x11-apps.
Preparing to unpack .../037-x11-apps_7.7+8build2_amd64.deb ...
Unpacking x11-apps (7.7+8build2) ...
Selecting previously unselected package make.
Preparing to unpack .../038-make_4.3-4.1build1_amd64.deb ...
Unpacking make (4.3-4.1build1) ...
Selecting previously unselected package tcsh.
Preparing to unpack .../039-tcsh_6.21.00-1.1_amd64.deb ...
Unpacking tcsh (6.21.00-1.1) ...
Selecting previously unselected package x11-xkb-utils.
Preparing to unpack .../040-x11-xkb-utils_7.7+5build4_amd64.deb ...
Unpacking x11-xkb-utils (7.7+5build4) ...
Selecting previously unselected package xserver-common.
Preparing to unpack .../041-xserver-common_2%3a21.1.4-2ubuntu1.7~22.04.9_all.deb ...
Unpacking xserver-common (2:21.1.4-2ubuntu1.7~22.04.9) ...
Selecting previously unselected package libglvnd0:amd64.
Preparing to unpack .../042-libglvnd0_1.4.0-1_amd64.deb ...
Unpacking libglvnd0:amd64 (1.4.0-1) ...
Selecting previously unselected package libwayland-server0:amd64.
Preparing to unpack .../043-libwayland-server0_1.20.0-1ubuntu0.1_amd64.deb ...
Unpacking libwayland-server0:amd64 (1.20.0-1ubuntu0.1) ...
Selecting previously unselected package libxcb-randr0:amd64.
Preparing to unpack .../044-libxcb-randr0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-randr0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libgbm1:amd64.
Preparing to unpack .../045-libgbm1_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking libgbm1:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package libglapi-mesa:amd64.
Preparing to unpack .../046-libglapi-mesa_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking libglapi-mesa:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package libwayland-client0:amd64.
Preparing to unpack .../047-libwayland-client0_1.20.0-1ubuntu0.1_amd64.deb ...
Unpacking libwayland-client0:amd64 (1.20.0-1ubuntu0.1) ...
Selecting previously unselected package libx11-xcb1:amd64.
Preparing to unpack .../048-libx11-xcb1_2%3a1.7.5-1ubuntu0.3_amd64.deb ...
Unpacking libx11-xcb1:amd64 (2:1.7.5-1ubuntu0.3) ...
Selecting previously unselected package libxcb-dri2-0:amd64.
Preparing to unpack .../049-libxcb-dri2-0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-dri2-0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-dri3-0:amd64.
Preparing to unpack .../050-libxcb-dri3-0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-dri3-0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-present0:amd64.
Preparing to unpack .../051-libxcb-present0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-present0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-sync1:amd64.
Preparing to unpack .../052-libxcb-sync1_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-sync1:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-xfixes0:amd64.
Preparing to unpack .../053-libxcb-xfixes0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-xfixes0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxshmfence1:amd64.
Preparing to unpack .../054-libxshmfence1_1.3-1build4_amd64.deb ...
Unpacking libxshmfence1:amd64 (1.3-1build4) ...
Selecting previously unselected package libegl-mesa0:amd64.
Preparing to unpack .../055-libegl-mesa0_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking libegl-mesa0:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package libegl1:amd64.
Preparing to unpack .../056-libegl1_1.4.0-1_amd64.deb ...
Unpacking libegl1:amd64 (1.4.0-1) ...
Selecting previously unselected package libepoxy0:amd64.
Preparing to unpack .../057-libepoxy0_1.5.10-1_amd64.deb ...
Unpacking libepoxy0:amd64 (1.5.10-1) ...
Selecting previously unselected package libxcb-glx0:amd64.
Preparing to unpack .../058-libxcb-glx0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-glx0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-shm0:amd64.
Preparing to unpack .../059-libxcb-shm0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-shm0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxxf86vm1:amd64.
Preparing to unpack .../060-libxxf86vm1_1%3a1.1.4-1build3_amd64.deb ...
Unpacking libxxf86vm1:amd64 (1:1.1.4-1build3) ...
Selecting previously unselected package libdrm-amdgpu1:amd64.
Preparing to unpack .../061-libdrm-amdgpu1_2.4.113-2~ubuntu0.22.04.1_amd64.deb ...
Unpacking libdrm-amdgpu1:amd64 (2.4.113-2~ubuntu0.22.04.1) ... Selecting
previously unselected package libpciaccess0:amd64.
Preparing to unpack .../062-libpciaccess0_0.16-3_amd64.deb ...
Unpacking libpciaccess0:amd64 (0.16-3) ...
Selecting previously unselected package libdrm-intel1:amd64.
```

```
Preparing to unpack .../063-libdrm-intel1_2.4.113-2~ubuntu0.22.04.1_amd64.deb ...
Unpacking libdrm-intel1:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Selecting previously unselected package libdrm-nouveau2:amd64.
Preparing to unpack .../064-libdrm-nouveau2_2.4.113-2~ubuntu0.22.04.1_amd64.deb ...
Unpacking libdrm-nouveau2:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Selecting previously unselected package libdrm-radeon1:amd64.
Preparing to unpack .../065-libdrm-radeon1_2.4.113-2~ubuntu0.22.04.1_amd64.deb ...
Unpacking libdrm-radeon1:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Selecting previously unselected package libllvm15:amd64.
Preparing to unpack .../066-libllvm15_1%3a15.0.7-0ubuntu0.22.04.3_amd64.deb ...
Unpacking libllvm15:amd64 (1:15.0.7-0ubuntu0.22.04.3) ...
Selecting previously unselected package libsensors-config.
Preparing to unpack .../067-libsensors-config_1%3a3.6.0-7ubuntu1_all.deb ...
Unpacking libsensors-config (1:3.6.0-7ubuntu1) ...
Selecting previously unselected package libsensors5:amd64.
Preparing to unpack .../068-libsensors5_1%3a3.6.0-7ubuntu1_amd64.deb ...
Unpacking libsensors5:amd64 (1:3.6.0-7ubuntu1) ...
Selecting previously unselected package libgl1-mesa-dri:amd64.
Preparing to unpack .../069-libgl1-mesa-dri_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking libgl1-mesa-dri:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package libglx-mesa0:amd64.
Preparing to unpack .../070-libglx-mesa0_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking libglx-mesa0:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package libglx0:amd64.
Preparing to unpack .../071-libglx0_1.4.0-1_amd64.deb ...
Unpacking libglx0:amd64 (1.4.0-1) ...
Selecting previously unselected package libgl1:amd64.
Preparing to unpack .../072-libgl1_1.4.0-1_amd64.deb ...
Unpacking libgl1:amd64 (1.4.0-1) ...
Selecting previously unselected package libpixman-1-0:amd64.
Preparing to unpack .../073-libpixman-1-0_0.40.0-1ubuntu0.22.04.1_amd64.deb ...
Unpacking libpixman-1-0:amd64 (0.40.0-1ubuntu0.22.04.1) ...
Selecting previously unselected package libxcvt0:amd64.
Preparing to unpack .../074-libxcvt0_0.1.1-3_amd64.deb ... Unpacking
libxcvt0:amd64 (0.1.1-3) ...
Selecting previously unselected package libfontenc1:amd64.
Preparing to unpack .../075-libfontenc1_1%3a1.1.4-1build3_amd64.deb ...
Unpacking libfontenc1:amd64 (1:1.1.4-1build3) ...
Selecting previously unselected package libxfont2:amd64.
Preparing to unpack .../076-libxfont2_1%3a2.0.5-1build1_amd64.deb ...
Unpacking libxfont2:amd64 (1:2.0.5-1build1) ...
Selecting previously unselected package xserver-xorg-core.
Preparing to unpack .../077-xserver-xorg-core_2%3a21.1.4-2ubuntu1.7~22.04.9_amd64.deb ...
Unpacking xserver-xorg-core (2:21.1.4-2ubuntu1.7~22.04.9) ...
Selecting previously unselected package libevdev2:amd64.
Preparing to unpack .../078-libevdev2_1.12.1+dfsg-1_amd64.deb ...
Unpacking libevdev2:amd64 (1.12.1+dfsg-1) ...
Selecting previously unselected package libmtdev1:amd64.
Preparing to unpack .../079-libmtdev1_1.1.6-1build4_amd64.deb ...
Unpacking libmtdev1:amd64 (1.1.6-1build4) ...
Selecting previously unselected package libgudev-1.0-0:amd64.
Preparing to unpack .../080-libgudev-1.0-0_1%3a237-2build1_amd64.deb ...
Unpacking libgudev-1.0-0:amd64 (1:237-2build1) ...
Selecting previously unselected package libwacom-common.
Preparing to unpack .../081-libwacom-common_2.2.0-1_all.deb ...
Unpacking libwacom-common (2.2.0-1) ...
Selecting previously unselected package libwacom9:amd64.
Preparing to unpack .../082-libwacom9_2.2.0-1_amd64.deb ...
Unpacking libwacom9:amd64 (2.2.0-1) ...
Selecting previously unselected package libinput-bin.
Preparing to unpack .../083-libinput-bin_1.20.0-1ubuntu0.3_amd64.deb ...
Unpacking libinput-bin (1.20.0-1ubuntu0.3) ...
Selecting previously unselected package libinput10:amd64.
Preparing to unpack .../084-libinput10_1.20.0-1ubuntu0.3_amd64.deb ...
Unpacking libinput10:amd64 (1.20.0-1ubuntu0.3) ...
Selecting previously unselected package xserver-xorg-input-libinput.
Preparing to unpack .../085-xserver-xorg-input-libinput_1.2.1-1_amd64.deb ...
Unpacking xserver-xorg-input-libinput (1.2.1-1) ...
Selecting previously unselected package xserver-xorg-input-all.
Preparing to unpack .../086-xserver-xorg-input-all_1%3a7.7+23ubuntu2_amd64.deb ...
Unpacking xserver-xorg-input-all (1:7.7+23ubuntu2) ...
Selecting previously unselected package libxi6:amd64.
Preparing to unpack .../087-libxi6_2%3a1.8-1build1_amd64.deb ...
Unpacking libxi6:amd64 (2:1.8-1build1) ...
Selecting previously unselected package libxrandr2:amd64.
Preparing to unpack .../088-libxrandr2_2%3a1.5.2-1build1_amd64.deb ...
Unpacking libxrandr2:amd64 (2:1.5.2-1build1) ...
Selecting previously unselected package xserver-xorg-input-wacom.
Preparing to unpack .../089-xserver-xorg-input-wacom_1%3a1.0.0-3ubuntu1_amd64.deb ...
Unpacking xserver-xorg-input-wacom (1:1.0.0-3ubuntu1) ...
Selecting previously unselected package xserver-xorg.
Preparing to unpack .../090-xserver-xorg_1%3a7.7+23ubuntu2_amd64.deb ...
Unpacking xserver-xorg (1:7.7+23ubuntu2) ...
Selecting previously unselected package libopengl0:amd64.
Preparing to unpack .../091-libopengl0_1.4.0-1_amd64.deb ...
Unpacking libopengl0:amd64 (1.4.0-1) ...
Selecting previously unselected package libglu1-mesa:amd64.
Preparing to unpack .../092-libglu1-mesa_9.0.2-1_amd64.deb ...
Unpacking libglu1-mesa:amd64 (9.0.2-1) ...
Selecting previously unselected package xfonts-encodings.
Preparing to unpack .../093-xfonts-encodings_1%3a1.0.5-0ubuntu2_all.deb ...
Unpacking xfonts-encodings (1:1.0.5-0ubuntu2) ...
Selecting previously unselected package xfonts-utils.
Preparing to unpack .../094-xfonts-utils_1%3a7.7+6build2_amd64.deb ...
Unpacking xfonts-utils (1:7.7+6build2) ...
Selecting previously unselected package xfonts-base.
Preparing to unpack .../095-xfonts-base_1%3a1.0.5_all.deb ...
Unpacking xfonts-base (1:1.0.5) ...
Selecting previously unselected package x11-session-utils.
Preparing to unpack .../096-x11-session-utils_7.7+4build2_amd64.deb ...
Unpacking x11-session-utils (7.7+4build2) ...
Selecting previously unselected package libxcb-shape0:amd64.
Preparing to unpack .../097-libxcb-shape0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-shape0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcomposite1:amd64.
Preparing to unpack .../098-libxcomposite1_1%3a0.4.5-1build2_amd64.deb ...
Unpacking libxcomposite1:amd64 (1:0.4.5-1build2) ...
Selecting previously unselected package libxtst6:amd64.
Preparing to unpack .../099-libxtst6_2%3a1.2.3-1build4_amd64.deb ...
Unpacking libxtst6:amd64 (2:1.2.3-1build4) ...
Selecting previously unselected package libxv1:amd64.
Preparing to unpack .../100-libxv1_2%3a1.0.11-1build2_amd64.deb ...
Unpacking libxv1:amd64 (2:1.0.11-1build2) ...
Selecting previously unselected package libxxf86dga1:amd64.
Preparing to unpack .../101-libxxf86dga1_2%3a1.1.5-0ubuntu3_amd64.deb ...
Unpacking libxxf86dga1:amd64 (2:1.1.5-0ubuntu3) ...
Selecting previously unselected package x11-utils.
Preparing to unpack .../102-x11-utils_7.7+5build2_amd64.deb ...
Unpacking x11-utils (7.7+5build2) ...
Selecting previously unselected package x11-xserver-utils.
Preparing to unpack .../103-x11-xserver-utils_7.7+9build1_amd64.deb ...
Unpacking x11-xserver-utils (7.7+9build1) ...
Selecting previously unselected package xinit.
Preparing to unpack .../104-xinit_1.4.1-0ubuntu4_amd64.deb ...
Unpacking xinit (1.4.1-0ubuntu4) ...
Selecting previously unselected package xorg-docs-core.
Preparing to unpack .../105-xorg-docs-core_1%3a1.7.1-1.2_all.deb ...
Unpacking xorg-docs-core (1:1.7.1-1.2) ...
Selecting previously unselected package xinput.
Preparing to unpack .../106-xinput_1.6.3-1build2_amd64.deb ...
Unpacking xinput (1.6.3-1build2) ...
Selecting previously unselected package xorg.
Preparing to unpack .../107-xorg_1%3a7.7+23ubuntu2_amd64.deb ...
Unpacking xorg (1:7.7+23ubuntu2) ...
Selecting previously unselected package libdmx1:amd64.
Preparing to unpack .../108-libdmx1_1%3a1.1.4-2build2_amd64.deb ...
Unpacking libdmx1:amd64 (1:1.1.4-2build2) ...
Selecting previously unselected package libdmx-dev:amd64.
Preparing to unpack .../109-libdmx-dev_1%3a1.1.4-2build2_amd64.deb ...
Unpacking libdmx-dev:amd64 (1:1.1.4-2build2) ...
Selecting previously unselected package libc-dev-bin.
Preparing to unpack .../110-libc-dev-bin_2.35-0ubuntu3.6_amd64.deb ...
Unpacking libc-dev-bin (2.35-0ubuntu3.6) ...
Selecting previously unselected package linux-libc-dev:amd64.
Preparing to unpack .../111-linux-libc-dev_5.15.0-101.111_amd64.deb ...
Unpacking linux-libc-dev:amd64 (5.15.0-101.111) ...
Selecting previously unselected package libcrypt-dev:amd64.
Preparing to unpack .../112-libcrypt-dev_1%3a4.4.27-1_amd64.deb ...
Unpacking libcrypt-dev:amd64 (1:4.4.27-1) ...
Selecting previously unselected package rpcsvc-proto.
Preparing to unpack .../113-rpcsvc-proto_1.4.2-0ubuntu6_amd64.deb ...
Unpacking rpcsvc-proto (1.4.2-0ubuntu6) ...
Selecting previously unselected package libtirpc-dev:amd64.
Preparing to unpack .../114-libtirpc-dev_1.3.2-2ubuntu0.1_amd64.deb ...
Unpacking libtirpc-dev:amd64 (1.3.2-2ubuntu0.1) ...
Selecting previously unselected package libnsl-dev:amd64.
Preparing to unpack .../115-libnsl-dev_1.3.0-2build2_amd64.deb ...
Unpacking libnsl-dev:amd64 (1.3.0-2build2) ...
Selecting previously unselected package libc6-dev:amd64.
Preparing to unpack .../116-libc6-dev_2.35-0ubuntu3.6_amd64.deb ...
Unpacking libc6-dev:amd64 (2.35-0ubuntu3.6) ...
Selecting previously unselected package zliblg-dev:amd64.
Preparing to unpack .../117-zliblg-dev_1%3a1.2.11.dfsg-2ubuntu9.2_amd64.deb ...
Unpacking zliblg-dev:amd64 (1:1.2.11.dfsg-2ubuntu9.2) ...
Selecting previously unselected package libfontenc-dev:amd64.
Preparing to unpack .../118-libfontenc-dev_1%3a1.1.4-1build3_amd64.deb ...
Unpacking libfontenc-dev:amd64 (1:1.1.4-1build3) ...
Selecting previously unselected package libfs6:amd64.
Preparing to unpack .../119-libfs6_2%3a1.0.8-1build2_amd64.deb ...
Unpacking libfs6:amd64 (2:1.0.8-1build2) ...
Selecting previously unselected package libfs-dev:amd64.
Preparing to unpack .../120-libfs-dev_2%3a1.0.8-1build2_amd64.deb ...
Unpacking libfs-dev:amd64 (2:1.0.8-1build2) ...
Selecting previously unselected package libice-dev:amd64.
Preparing to unpack .../121-libice-dev_2%3a1.0.10-1build2_amd64.deb ...
Unpacking libice-dev:amd64 (2:1.0.10-1build2) ...
Selecting previously unselected package libsm-dev:amd64.
Preparing to unpack .../122-libsm-dev_2%3a1.2.3-1build2_amd64.deb ...
Unpacking libsm-dev:amd64 (2:1.2.3-1build2) ...
Selecting previously unselected package libxext-dev:amd64.
Preparing to unpack .../123-libxext-dev_2%3a1.3.4-1build1_amd64.deb ...
Unpacking libxext-dev:amd64 (2:1.3.4-1build1) ...
Selecting previously unselected package libxt-dev:amd64.
Preparing to unpack .../124-libxt-dev_1%3a1.2.1-1_amd64.deb ...
Unpacking libxt-dev:amd64 (1:1.2.1-1) ...
Selecting previously unselected package libxmu-headers.
Preparing to unpack .../125-libxmu-headers_2%3a1.1.3-3_all.deb ...
Unpacking libxmu-headers (2:1.1.3-3) ...
Selecting previously unselected package libxmu-dev:amd64.
Preparing to unpack .../126-libxmu-dev_2%3a1.1.3-3_amd64.deb ...
Unpacking libxmu-dev:amd64 (2:1.1.3-3) ...
Selecting previously unselected package libxpm-dev:amd64.
Preparing to unpack .../127-libxpm-dev_1%3a3.5.12-1ubuntu0.22.04.2_amd64.deb ...
Unpacking libxpm-dev:amd64 (1:3.5.12-1ubuntu0.22.04.2) ...
Selecting previously unselected package libxaw7-dev:amd64.
Preparing to unpack .../128-libxaw7-dev_2%3a1.0.14-1_amd64.deb ...
Unpacking libxaw7-dev:amd64 (2:1.0.14-1) ...
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Selecting previously unselected package libxfixes-dev:amd64.
Preparing to unpack .../129-libxfixes-dev_1%3a6.0.0-1_amd64.deb ...
Unpacking libxfixes-dev:amd64 (1:6.0.0-1) ...
Selecting previously unselected package libxcomposite-dev:amd64.
Preparing to unpack .../130-libxcomposite-dev_1%3a0.4.5-1build2_amd64.deb ...
Unpacking libxcomposite-dev:amd64 (1:0.4.5-1build2) ...
Selecting previously unselected package libxrender-dev:amd64.
Preparing to unpack .../131-libxrender-dev_1%3a0.9.10-1build4_amd64.deb ...
Unpacking libxrender-dev:amd64 (1:0.9.10-1build4) ...
Selecting previously unselected package libxcursor-dev:amd64.
Preparing to unpack .../132-libxcursor-dev_1%3a1.2.0-2build4_amd64.deb ...
Unpacking libxcursor-dev:amd64 (1:1.2.0-2build4) ...
Selecting previously unselected package libxdamage1:amd64.
Preparing to unpack .../133-libxdamage1_1%3a1.1.5-2build2_amd64.deb ...
Unpacking libxdamage1:amd64 (1:1.1.5-2build2) ...
Selecting previously unselected package libxdamage-dev:amd64.
Preparing to unpack .../134-libxdamage-dev_1%3a1.1.5-2build2_amd64.deb ...
Unpacking libxdamage-dev:amd64 (1:1.1.5-2build2) ...
Selecting previously unselected package libbrotli-dev:amd64.
Preparing to unpack .../135-libbrotli-dev_1.0.9-2build6_amd64.deb ...
Unpacking libbrotli-dev:amd64 (1.0.9-2build6) ...
Selecting previously unselected package libpng-dev:amd64.
Preparing to unpack .../136-libpng-dev_1.6.37-3build5_amd64.deb ...
Unpacking libpng-dev:amd64 (1.6.37-3build5) ...
Selecting previously unselected package libfreetype-dev:amd64.
Preparing to unpack .../137-libfreetype-dev_2.11.1+dfsg-1ubuntu0.2_amd64.deb ...
Unpacking libfreetype-dev:amd64 (2.11.1+dfsg-1ubuntu0.2) ...
Selecting previously unselected package libfreetype6-dev:amd64.
Preparing to unpack .../138-libfreetype6-dev_2.11.1+dfsg-1ubuntu0.2_amd64.deb ...
Unpacking libfreetype6-dev:amd64 (2.11.1+dfsg-1ubuntu0.2) ...
Selecting previously unselected package libxfont-dev.
Preparing to unpack .../139-libxfont-dev_1%3a2.0.5-1build1_amd64.deb ...
Unpacking libxfont-dev (1:2.0.5-1build1) ...
Selecting previously unselected package libexpat1-dev:amd64.
Preparing to unpack .../140-libexpat1-dev_2.4.7-1ubuntu0.3_amd64.deb ...
Unpacking libexpat1-dev:amd64 (2.4.7-1ubuntu0.3) ...
Selecting previously unselected package uuid-dev:amd64.
Preparing to unpack .../141-uuid-dev_2.37.2-4ubuntu3.3_amd64.deb ...
Unpacking uuid-dev:amd64 (2.37.2-4ubuntu3.3) ...
Selecting previously unselected package libdpkg-perl.
Preparing to unpack .../142-libdpkg-perl_1.21.1ubuntu2.3_all.deb ...
Unpacking libdpkg-perl (1.21.1ubuntu2.3) ...
Selecting previously unselected package pkg-config.
Preparing to unpack .../143-pkg-config_0.29.2-1ubuntu3_amd64.deb ...
Unpacking pkg-config (0.29.2-1ubuntu3) ...
Selecting previously unselected package libfontconfig-dev:amd64.
Preparing to unpack .../144-libfontconfig-dev_2.13.1-4.2ubuntu5_amd64.deb ...
Unpacking libfontconfig-dev:amd64 (2.13.1-4.2ubuntu5) ...
Selecting previously unselected package libfontconfig1-dev:amd64.
Preparing to unpack .../145-libfontconfig1-dev_2.13.1-4.2ubuntu5_amd64.deb ...
Unpacking libfontconfig1-dev:amd64 (2.13.1-4.2ubuntu5) ...
Selecting previously unselected package libxft-dev:amd64.
Preparing to unpack .../146-libxft-dev_2.3.4-1_amd64.deb ...
Unpacking libxft-dev:amd64 (2.3.4-1) ...
Selecting previously unselected package libxi-dev:amd64.
Preparing to unpack .../147-libxi-dev_2%3a1.8-1build1_amd64.deb ...
Unpacking libxi-dev:amd64 (2:1.8-1build1) ...
Selecting previously unselected package libxinerama-dev:amd64.
Preparing to unpack .../148-libxinerama-dev_2%3a1.1.4-3_amd64.deb ...
Unpacking libxinerama-dev:amd64 (2:1.1.4-3) ...
Selecting previously unselected package libxkbfile-dev:amd64.
Preparing to unpack .../149-libxkbfile-dev_1%3a1.1.0-1build3_amd64.deb ...
Unpacking libxkbfile-dev:amd64 (1:1.1.0-1build3) ...
Selecting previously unselected package libxmuu-dev:amd64.
Preparing to unpack .../150-libxmuu-dev_2%3a1.1.3-3_amd64.deb ...
Unpacking libxmuu-dev:amd64 (2:1.1.3-3) ...
Selecting previously unselected package libxrandr-dev:amd64.
Preparing to unpack .../151-libxrandr-dev_2%3a1.5.2-1build1_amd64.deb ...
Unpacking libxrandr-dev:amd64 (2:1.5.2-1build1) ...
Selecting previously unselected package libxres1:amd64.
Preparing to unpack .../152-libxres1_2%3a1.2.1-1_amd64.deb ...
Unpacking libxres1:amd64 (2:1.2.1-1) ...
Selecting previously unselected package libxres-dev:amd64.
Preparing to unpack .../153-libxres-dev_2%3a1.2.1-1_amd64.deb ...
Unpacking libxres-dev:amd64 (2:1.2.1-1) ...
Selecting previously unselected package libxss1:amd64.
Preparing to unpack .../154-libxss1_1%3a1.2.3-1build2_amd64.deb ...
Unpacking libxss1:amd64 (1:1.2.3-1build2) ...
Selecting previously unselected package libxss-dev:amd64.
Preparing to unpack .../155-libxss-dev_1%3a1.2.3-1build2_amd64.deb ...
Unpacking libxss-dev:amd64 (1:1.2.3-1build2) ...
Selecting previously unselected package libxtst-dev:amd64.
Preparing to unpack .../156-libxtst-dev_2%3a1.2.3-1build4_amd64.deb ...
Unpacking libxtst-dev:amd64 (2:1.2.3-1build4) ...
Selecting previously unselected package libxv-dev:amd64.
Preparing to unpack .../157-libxv-dev_2%3a1.0.11-1build2_amd64.deb ...
Unpacking libxv-dev:amd64 (2:1.0.11-1build2) ...
Selecting previously unselected package libxvmc1:amd64.
Preparing to unpack .../158-libxvmc1_2%3a1.0.12-2build2_amd64.deb ...
Unpacking libxvmc1:amd64 (2:1.0.12-2build2) ...
Selecting previously unselected package libxvmc-dev:amd64.
Preparing to unpack .../159-libxvmc-dev_2%3a1.0.12-2build2_amd64.deb ...
Unpacking libxvmc-dev:amd64 (2:1.0.12-2build2) ...
Selecting previously unselected package libxxf86dga-dev:amd64.
Preparing to unpack .../160-libxxf86dga-dev_2%3a1.1.5-0ubuntu3_amd64.deb ...
Unpacking libxxf86dga-dev:amd64 (2:1.1.5-0ubuntu3) ...
Selecting previously unselected package libxxf86vm-dev:amd64.
Preparing to unpack .../161-libxxf86vm-dev_1%3a1.1.4-1build3_amd64.deb ...
Unpacking libxxf86vm-dev:amd64 (1:1.1.4-1build3) ...
Selecting previously unselected package libpixman-1-dev:amd64.
Preparing to unpack .../162-libpixman-1-dev_0.40.0-1ubuntu0.22.04.1_amd64.deb ...
Unpacking libpixman-1-dev:amd64 (0.40.0-1ubuntu0.22.04.1) ... Selecting
previously unselected package libxcvt-dev:amd64.
Preparing to unpack .../163-libxcvt-dev_0.1.1-3_amd64.deb ...
Unpacking libxcvt-dev:amd64 (0.1.1-3) ...
Selecting previously unselected package libpciaccess-dev:amd64.
Preparing to unpack .../164-libpciaccess-dev_0.16-3_amd64.deb ...
Unpacking libpciaccess-dev:amd64 (0.16-3) ...
Selecting previously unselected package libglx-dev:amd64.
Preparing to unpack .../165-libglx-dev_1.4.0-1_amd64.deb ...
Unpacking libglx-dev:amd64 (1.4.0-1) ...
Selecting previously unselected package libgl-dev:amd64.
Preparing to unpack .../166-libgl-dev_1.4.0-1_amd64.deb ...
Unpacking libgl-dev:amd64 (1.4.0-1) ...
Selecting previously unselected package libdrm-dev:amd64.
Preparing to unpack .../167-libdrm-dev_2.4.113-2~ubuntu0.22.04.1_amd64.deb ...
Unpacking libdrm-dev:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Selecting previously unselected package mesa-common-dev:amd64.
Preparing to unpack .../168-mesa-common-dev_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking mesa-common-dev:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package xserver-xorg-dev.
Preparing to unpack .../169-xserver-xorg-dev_2%3a21.1.4-2ubuntu1.7~22.04.9_amd64.deb ...
Unpacking xserver-xorg-dev (2:21.1.4-2ubuntu1.7~22.04.9) ...
Selecting previously unselected package xorg-dev.
Preparing to unpack .../170-xorg-dev_1%3a7.7+23ubuntu2_all.deb ...
Unpacking xorg-dev (1:7.7+23ubuntu2) ...
Selecting previously unselected package libxcb-util1:amd64.
Preparing to unpack .../171-libxcb-util1_0.4.0-1build2_amd64.deb ...
Unpacking libxcb-util1:amd64 (0.4.0-1build2) ...
Selecting previously unselected package xserver-xorg-video-intel.
Preparing to unpack .../172-xserver-xorg-video-intel_2%3a2.99.917+git20210115-1_amd64.deb ...
Unpacking xserver-xorg-video-intel (2:2.99.917+git20210115-1) ...
Selecting previously unselected package libtinfo5:amd64.
Preparing to unpack .../173-libtinfo5_6.3-2ubuntu0.1_amd64.deb ...
Unpacking libtinfo5:amd64 (6.3-2ubuntu0.1) ...
Selecting previously unselected package libncurses5:amd64.
Preparing to unpack .../174-libncurses5_6.3-2ubuntu0.1_amd64.deb ...
Unpacking libncurses5:amd64 (6.3-2ubuntu0.1) ...
Selecting previously unselected package libjpeg62:amd64.
Preparing to unpack .../175-libjpeg62_1%3a6b2-3_amd64.deb ...
Unpacking libjpeg62:amd64 (1:6b2-3) ...
Selecting previously unselected package libquadmath0:amd64.
Preparing to unpack .../176-libquadmath0_12.3.0-1ubuntu1~22.04_amd64.deb ...
Unpacking libquadmath0:amd64 (12.3.0-1ubuntu1~22.04) ...
Selecting previously unselected package libwayland-cursor0:amd64.
Preparing to unpack .../177-libwayland-cursor0_1.20.0-1ubuntu0.1_amd64.deb ...
Unpacking libwayland-cursor0:amd64 (1.20.0-1ubuntu0.1) ...
Selecting previously unselected package libxcb-icccm4:amd64.
Preparing to unpack .../178-libxcb-icccm4_0.4.1-1.1build2_amd64.deb ...
Unpacking libxcb-icccm4:amd64 (0.4.1-1.1build2) ...
Selecting previously unselected package libxcb-image0:amd64.
Preparing to unpack .../179-libxcb-image0_0.4.0-2_amd64.deb ...
Unpacking libxcb-image0:amd64 (0.4.0-2) ...
Selecting previously unselected package libxcb-keysyms1:amd64.
Preparing to unpack .../180-libxcb-keysyms1_0.4.0-1build3_amd64.deb ...
Unpacking libxcb-keysyms1:amd64 (0.4.0-1build3) ...
Selecting previously unselected package libxcb-render0:amd64.
Preparing to unpack .../181-libxcb-render0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-render0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-render-util0:amd64.
Preparing to unpack .../182-libxcb-render-util0_0.3.9-1build3_amd64.deb ...
Unpacking libxcb-render-util0:amd64 (0.3.9-1build3) ...
Selecting previously unselected package libxcb-xinerama0:amd64.
Preparing to unpack .../183-libxcb-xinerama0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-xinerama0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-xinput0:amd64.
Preparing to unpack .../184-libxcb-xinput0_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-xinput0:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxcb-xkb1:amd64.
Preparing to unpack .../185-libxcb-xkb1_1.14-3ubuntu3_amd64.deb ...
Unpacking libxcb-xkb1:amd64 (1.14-3ubuntu3) ...
Selecting previously unselected package libxkbcommon0:amd64.
Preparing to unpack .../186-libxkbcommon0_1.4.0-1_amd64.deb ...
Unpacking libxkbcommon0:amd64 (1.4.0-1) ...
Selecting previously unselected package libxkbcommon-x11-0:amd64.
Preparing to unpack .../187-libxkbcommon-x11-0_1.4.0-1_amd64.deb ...
Unpacking libxkbcommon-x11-0:amd64 (1.4.0-1) ...
Selecting previously unselected package freesurfer.
Preparing to unpack .../188-freesurfer_ubuntu22-7.4.1_amd64.deb ...
Unpacking freesurfer (7.4.1) ...
Selecting previously unselected package libjpeg-turbo8:amd64.
Preparing to unpack .../189-libjpeg-turbo8_2.1.2-0ubuntu1_amd64.deb ...
Unpacking libjpeg-turbo8:amd64 (2.1.2-0ubuntu1) ...
Selecting previously unselected package libjpeg8:amd64.
Preparing to unpack .../190-libjpeg8_8c-2ubuntu10_amd64.deb ...
Unpacking libjpeg8:amd64 (8c-2ubuntu10) ...
Selecting previously unselected package libdeflate0:amd64.
Preparing to unpack .../191-libdeflate0_1.10-2_amd64.deb ...
Unpacking libdeflate0:amd64 (1.10-2) ...
Selecting previously unselected package libjbig0:amd64.
Preparing to unpack .../192-libjbig0_2.1-3.1ubuntu0.22.04.1_amd64.deb ...
Unpacking libjbig0:amd64 (2.1-3.1ubuntu0.22.04.1) ...
Selecting previously unselected package libwebp7:amd64.
Preparing to unpack .../193-libwebp7_1.2.2-2ubuntu0.22.04.2_amd64.deb ...
Unpacking libwebp7:amd64 (1.2.2-2ubuntu0.22.04.2) ...
Selecting previously unselected package libtiff5:amd64.
Preparing to unpack .../194-libtiff5_4.3.0-6ubuntu0.8_amd64.deb ...
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Unpacking libtiff5:amd64 (4.3.0-6ubuntu0.8) ...
Selecting previously unselected package libgd3:amd64.
Preparing to unpack .../195-libgd3_2.3.0-2ubuntu2_amd64.deb ...
Unpacking libgd3:amd64 (2.3.0-2ubuntu2) ...
Selecting previously unselected package libc-devtools.
Preparing to unpack .../196-libc-devtools_2.35-0ubuntu3.6_amd64.deb ...
Unpacking libc-devtools (2.35-0ubuntu3.6) ...
Selecting previously unselected package libfile-fcntllock-perl.
Preparing to unpack .../197-libfile-fcntllock-perl_0.22-3build7_amd64.deb ...
Unpacking libfile-fcntllock-perl (0.22-3build7) ...
Selecting previously unselected package libgl1-amber-dri:amd64.
Preparing to unpack .../198-libgl1-amber-dri_21.3.9-0ubuntu1~22.04.1_amd64.deb ...
Unpacking libgl1-amber-dri:amd64 (21.3.9-0ubuntu1~22.04.1) ...
Selecting previously unselected package libpng-tools.
Preparing to unpack .../199-libpng-tools_1.6.37-3build5_amd64.deb ...
Unpacking libpng-tools (1.6.37-3build5) ...
Selecting previously unselected package libvulkan1:amd64.
Preparing to unpack .../200-libvulkan1_1.3.204.1-2_amd64.deb ...
Unpacking libvulkan1:amd64 (1.3.204.1-2) ...
Selecting previously unselected package libwacom-bin.
Preparing to unpack .../201-libwacom-bin_2.2.0-1_amd64.deb ...
Unpacking libwacom-bin (2.2.0-1) ...
Selecting previously unselected package libxatracker2:amd64.
Preparing to unpack .../202-libxatracker2_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking libxatracker2:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package manpages-dev.
Preparing to unpack .../203-manpages-dev_5.10-1ubuntu1_all.deb ... Unpacking
manpages-dev (5.10-1ubuntu1) ...
Selecting previously unselected package mesa-vulkan-drivers:amd64.
Preparing to unpack .../204-mesa-vulkan-drivers_23.2.1-1ubuntu3.1~22.04.2_amd64.deb ...
Unpacking mesa-vulkan-drivers:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Selecting previously unselected package xcvt.
Preparing to unpack .../205-xcvt_0.1.1-3_amd64.deb ...
Unpacking xcvt (0.1.1-3) ...
Selecting previously unselected package xfonts-scalable.
Preparing to unpack .../206-xfonts-scalable_1%3a1.0.3-1.2ubuntu1_all.deb ...
Unpacking xfonts-scalable (1:1.0.3-1.2ubuntu1) ...
Selecting previously unselected package xserver-xorg-video-amdgpu.
Preparing to unpack .../207-xserver-xorg-video-amdgpu_22.0.0-1ubuntu0.2_amd64.deb ...
Unpacking xserver-xorg-video-amdgpu (22.0.0-1ubuntu0.2) ...
Selecting previously unselected package xserver-xorg-video-radeon.
Preparing to unpack .../208-xserver-xorg-video-radeon_1%3a19.1.0-2ubuntu1_amd64.deb ...
Unpacking xserver-xorg-video-radeon (1:19.1.0-2ubuntu1) ...
Selecting previously unselected package xserver-xorg-video-ati.
Preparing to unpack .../209-xserver-xorg-video-ati_1%3a19.1.0-2ubuntu1_amd64.deb ...
Unpacking xserver-xorg-video-ati (1:19.1.0-2ubuntu1) ...
Selecting previously unselected package xserver-xorg-video-fbdev.
Preparing to unpack .../210-xserver-xorg-video-fbdev_1%3a0.5.0-2build1_amd64.deb ...
Unpacking xserver-xorg-video-fbdev (1:0.5.0-2build1) ...
Selecting previously unselected package xserver-xorg-video-nouveau.
Preparing to unpack .../211-xserver-xorg-video-nouveau_1%3a1.0.17-2build1_amd64.deb ...
Unpacking xserver-xorg-video-nouveau (1:1.0.17-2build1) ...
Selecting previously unselected package xserver-xorg-video-vesa.
Preparing to unpack .../212-xserver-xorg-video-vesa_1%3a2.5.0-1build4_amd64.deb ...
Unpacking xserver-xorg-video-vesa (1:2.5.0-1build4) ...
Selecting previously unselected package xserver-xorg-video-vmware.
Preparing to unpack .../213-xserver-xorg-video-vmware_1%3a13.3.0-3build1_amd64.deb ...
Unpacking xserver-xorg-video-vmware (1:13.3.0-3build1) ...
Selecting previously unselected package xserver-xorg-video-all.
Preparing to unpack .../214-xserver-xorg-video-all_1%3a7.7+23ubuntu2_amd64.deb ...
Unpacking xserver-xorg-video-all (1:7.7+23ubuntu2) ...
Selecting previously unselected package xserver-xorg-video-qxl.
Preparing to unpack .../215-xserver-xorg-video-qxl_0.1.5+git20200331-3_amd64.deb ...
Unpacking xserver-xorg-video-qxl (0.1.5+git20200331-3) ...
Selecting previously unselected package xserver-xorg-legacy.
Preparing to unpack .../216-xserver-xorg-legacy_2%3a21.1.4-2ubuntu1.7~22.04.9_amd64.deb ...
Unpacking xserver-xorg-legacy (2:21.1.4-2ubuntu1.7~22.04.9) ...
Setting up libxcb-dri3-0:amd64 (1.14-3ubuntu3) ...
Setting up libpixman-1-0:amd64 (0.40.0-1ubuntu0.22.04.1) ...
Setting up gcc-11-base:amd64 (11.4.0-1ubuntu1~22.04) ...
Setting up libwayland-server0:amd64 (1.20.0-1ubuntu0.1) ...
Setting up manpages-dev (5.10-1ubuntu1) ...
Setting up libx11-xcb1:amd64 (2:1.7.5-1ubuntu0.3) ...
Setting up libpciaccess0:amd64 (0.16-3) ...
Setting up libdrm-nouveau2:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Setting up libpixman-1-dev:amd64 (0.40.0-1ubuntu0.22.04.1) ...
Setting up libxdamage1:amd64 (1:1.1.5-2build2) ...
Setting up libpciaccess-dev:amd64 (0.16-3) ...
Setting up libxcb-xfixes0:amd64 (1.14-3ubuntu3) ...
Setting up libjpeg62:amd64 (1:6b2-3) ...
Setting up csh (20110502-7) ... update-alternatives: using /bin/bsd-csh to provide
/bin/csh (csh) in auto mode
Setting up libxpm4:amd64 (1:3.5.12-1ubuntu0.22.04.2) ...
Setting up libxi6:amd64 (2:1.8-1build1) ...
Setting up libxcb-xinput0:amd64 (1.14-3ubuntu3) ...
Setting up libxrender1:amd64 (1:0.9.10-1build4) ...
Setting up libpng-tools (1.6.37-3build5) ...
Setting up libfile-fcntllock-perl (0.22-3build7) ...
Setting up libxcb-render0:amd64 (1.14-3ubuntu3) ...
Setting up libdrm-radeon1:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Setting up libglvnd0:amd64 (1.4.0-1) ...
Setting up libxcb-glx0:amd64 (1.14-3ubuntu3) ...
Setting up libdrm-intel1:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Setting up libxcb-keysyms1:amd64 (0.4.0-1build3) ...
Setting up libxcb-shape0:amd64 (1.14-3ubuntu3) ...
Setting up x11-common (1:7.7+23ubuntu2) ...
Setting up libsensors-config (1:3.6.0-7ubuntu1) ...
Setting up libxxf86dga1:amd64 (2:1.1.5-0ubuntu3) ... Setting up
libdeflate0:amd64 (1.10-2) ...
Setting up linux-libc-dev:amd64 (5.15.0-101.111) ...
Setting up libxcb-render-util0:amd64 (0.3.9-1build3) ...
Setting up libxcb-shm0:amd64 (1.14-3ubuntu3) ...
Setting up libxcb-icccm4:amd64 (0.4.1-1.1build2) ...
Setting up libgomp1:amd64 (12.3.0-1ubuntu1~22.04) ...
Setting up bzip2 (1.0.8-5build1) ...
Setting up libxvmc1:amd64 (2:1.0.12-2build2) ...
Setting up libpthread-stubs0-dev:amd64 (0.4-1build2) ...
Setting up libjbig0:amd64 (2.1-3.1ubuntu0.22.04.1) ...
Setting up libopengl0:amd64 (1.4.0-1) ...
Setting up libxcb-util1:amd64 (0.4.0-1build2) ...
Setting up libxxf86vm1:amd64 (1:1.1.4-1build3) ...
Setting up libxcb-xkb1:amd64 (1.14-3ubuntu3) ...
Setting up libxcb-image0:amd64 (0.4.0-2) ...
Setting up libxcb-present0:amd64 (1.14-3ubuntu3) ...
Setting up xorg-docs-core (1:1.7.1-1.2) ...
Setting up xtrans-dev (1.4.0-1) ...
Setting up libfontenc1:amd64 (1:1.1.4-1build3) ...
Setting up libxcb-xinerama0:amd64 (1.14-3ubuntu3) ...
Setting up libtirpc-dev:amd64 (1.3.2-2ubuntu0.1) ...
Setting up rpcsvc-proto (1.4.2-0ubuntu6) ...
Setting up make (4.3-4.1build1) ...
Setting up libepoxy0:amd64 (1.5.10-1) ...
Setting up libdmx1:amd64 (1:1.1.4-2build2) ...
Setting up libxfixes3:amd64 (1:6.0.0-1) ...
Setting up libxcb-sync1:amd64 (1.14-3ubuntu3) ...
Setting up xfonts-encodings (1:1.0.5-0ubuntu2) ...
Setting up libquadmath0:amd64 (12.3.0-1ubuntu1~22.04) ...
Setting up libxinerama1:amd64 (2:1.1.4-3) ...
Setting up libxv1:amd64 (2:1.0.11-1build2) ...
Setting up libmpc3:amd64 (1.2.1-2build1) ...
Setting up libxrandr2:amd64 (2:1.5.2-1build1) ...
Setting up fonts-dejavu-core (2.37-2build1) ...
Setting up libsensors5:amd64 (1:3.6.0-7ubuntu1) ...
Setting up libjpeg-turbo8:amd64 (2.1.2-0ubuntu1) ...
Setting up libglapi-mesa:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up libdpkg-perl (1.21.1ubuntu2.3) ...
Setting up libmtdev1:amd64 (1.1.6-1build4) ...
Setting up libvulkan1:amd64 (1.3.204.1-2) ...
Setting up libwebp7:amd64 (1.2.2-2ubuntu0.22.04.2) ...
Setting up libxcb-dri2-0:amd64 (1.14-3ubuntu3) ...
Setting up libfs6:amd64 (2:1.0.8-1build2) ...
Setting up libnsl-dev:amd64 (1.3.0-2build2) ...
Setting up libxshmfence1:amd64 (1.3-1build4) ...
Setting up libcrypt-dev:amd64 (1:4.4.27-1) ...
Setting up libxcb-randr0:amd64 (1.14-3ubuntu3) ...
Setting up libllvm15:amd64 (1:15.0.7-0ubuntu0.22.04.3) ...
Setting up libxcvt0:amd64 (0.1.1-3) ...
Setting up xorg-sgml-doctools (1:1.11-1.1) ... Setting up
libglu1-mesa:amd64 (9.0.2-1) ...
Setting up libxss1:amd64 (1:1.2.3-1build2) ...
Setting up libxkbfile1:amd64 (1:1.1.0-1build3) ...
Setting up libisl23:amd64 (0.24-2build1) ...
Setting up libc-dev-bin (2.35-0ubuntu3.6) ...
Setting up libtinfo5:amd64 (6.3-2ubuntu0.1) ...
Setting up libxcomposite1:amd64 (1:0.4.5-1build2) ...
Setting up libxfont2:amd64 (1:2.0.5-1build1) ...
Setting up libevdev2:amd64 (1.12.1+dfsg-1) ...
Setting up tcsh (6.21.00-1.1) ...
Setting up libbrotli-dev:amd64 (1.0.9-2build6) ...
Setting up libgudev-1.0-0:amd64 (1:237-2build1) ...
Setting up xbitmaps (1.1.1-2.1ubuntu1) ...
Setting up libxres1:amd64 (2:1.2.1-1) ...
Setting up libdrm-amdgpu1:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Setting up libwacom-common (2.2.0-1) ...
Setting up libxkbcommon0:amd64 (1.4.0-1) ...
Setting up libwayland-client0:amd64 (1.20.0-1ubuntu0.1) ...
Setting up libjpeg8:amd64 (8c-2ubuntu10) ...
Setting up x11proto-dev (2021.5-1) ...
Setting up cpp-11 (11.4.0-1ubuntu1~22.04) ...
Setting up libgl1-amber-dri:amd64 (21.3.9-0ubuntu1~22.04.1) ...
Setting up xinit (1.4.1-0ubuntu4) ...
Setting up mesa-vulkan-drivers:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up libice6:amd64 (2:1.0.10-1build2) ...
Setting up libdrm-dev:amd64 (2.4.113-2~ubuntu0.22.04.1) ...
Setting up gettext (0.21-4ubuntu4) ...
Setting up libxcvt-dev:amd64 (0.1.1-3) ...
Setting up libxau-dev:amd64 (1:1.0.9-1build5) ...
Setting up libice-dev:amd64 (2:1.0.10-1build2) ...
Setting up libgbm1:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up libwacom9:amd64 (2.2.0-1) ...
Setting up fontconfig-config (2.13.1-4.2ubuntu5) ...
Setting up libxtst6:amd64 (2:1.2.3-1build4) ...
Setting up libxcursor1:amd64 (1:1.2.0-2build4) ...
Setting up libgl1-mesa-dri:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up xinput (1.6.3-1build2) ...
Setting up xfonts-utils (1:7.7+6build2) ...
Setting up libncurses5:amd64 (6.3-2ubuntu0.1) ...
Setting up libxatracker2:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up libinput-bin (1.20.0-1ubuntu0.3) ...
Setting up xcvt (0.1.1-3) ...
Setting up libxdmcp-dev:amd64 (1:1.1.3-0ubuntu5) ...
Setting up xfonts-base (1:1.0.5) ...
Setting up libegl-mesa0:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up libxkbcommon-x11-0:amd64 (1.4.0-1) ...
Setting up pkg-config (0.29.2-1ubuntu3) ...
Setting up libfs-dev:amd64 (2:1.0.8-1build2) ...
Setting up libwacom-bin (2.2.0-1) ...
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Setting up libwayland-cursor0:amd64 (1.20.0-1ubuntu0.1) ...
Setting up cpp (4:11.2.0-1ubuntu1) ...
Setting up libegl1:amd64 (1.4.0-1) ...
Setting up libc6-dev:amd64 (2.35-0ubuntu3.6) ...
Setting up libtiff5:amd64 (4.3.0-6ubuntu0.8) ...
Setting up libfontconfig1:amd64 (2.13.1-4.2ubuntu5) ...
Setting up libsm6:amd64 (2:1.2.3-1build2) ...
Setting up xfonts-scalable (1:1.0.3-1.2ubuntu1) ...
Setting up libinput10:amd64 (1.20.0-1ubuntu0.3) ...
Setting up libxft2:amd64 (2.3.4-1) ...
Setting up libglx-mesa0:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up libxcb1-dev:amd64 (1.14-3ubuntu3) ... Setting up
libglx0:amd64 (1.4.0-1) ...
Setting up libsm-dev:amd64 (2:1.2.3-1build2) ...
Setting up libx11-dev:amd64 (2:1.7.5-1ubuntu0.3) ...
Setting up libxfixes-dev:amd64 (1:6.0.0-1) ...
Setting up libgl1:amd64 (1.4.0-1) ...
Setting up libexpat1-dev:amd64 (2.4.7-1ubuntu0.3) ...
Setting up libdmx-dev:amd64 (1:1.1.4-2build2) ...
Setting up uuid-dev:amd64 (2.37.2-4ubuntu3.3) ...
Setting up libxpm-dev:amd64 (1:3.5.12-1ubuntu0.22.04.2) ...
Setting up libgd3:amd64 (2.3.0-2ubuntu2) ...
Setting up libxt6:amd64 (1:1.2.1-1) ...
Setting up libxext-dev:amd64 (2:1.3.4-1build1) ...
Setting up x11proto-dev:amd64 (2021.5-1) ...
Setting up libglvnd-dev:amd64 (1.4.0-1) ...
Setting up libxres-dev:amd64 (2:1.2.1-1) ...
Setting up libxi-dev:amd64 (2:1.8-1build1) ...
Setting up libxrender-dev:amd64 (1:0.9.10-1build4) ...
Setting up libgl-dev:amd64 (1.4.0-1) ...
Setting up libc-devtools (2.35-0ubuntu3.6) ...
Setting up libxtst-dev:amd64 (2:1.2.3-1build4) ...
Setting up libxkbfile-dev:amd64 (1:1.1.0-1build3) ...
Setting up libxdamage-dev:amd64 (1:1.1.5-2build2) ...
Setting up libxmu-headers (2:1.1.3-3) ...
Setting up libxmu6:amd64 (2:1.1.3-3) ...
Setting up libxcomposite-dev:amd64 (1:0.4.5-1build2) ...
Setting up libxcursor-dev:amd64 (1:1.2.0-2build4) ...
Setting up libxxf86dga-dev:amd64 (2:1.1.5-0ubuntu3) ...
Setting up libxxf86vm-dev:amd64 (1:1.1.4-1build3) ... Setting up
libpng-dev:amd64 (1.6.37-3build5) ...
Setting up libfontenc-dev:amd64 (1:1.1.4-1build3) ...
Setting up libxaw7:amd64 (2:1.0.14-1) ...
Setting up libxss-dev:amd64 (1:1.2.3-1build2) ...
Setting up x11-xserver-utils (7.7+9build1) ...
Setting up libfreetype-dev:amd64 (2.11.1+dfsg-1ubuntu0.2) ...
Setting up libxv-dev:amd64 (2:1.0.11-1build2) ...
Setting up libxrandr-dev:amd64 (2:1.5.2-1build1) ...
Setting up libxt-dev:amd64 (1:1.2.1-1) ...
Setting up libxinerama-dev:amd64 (2:1.1.4-3) ...
Setting up x11-utils (7.7+5build2) ...
Setting up mesa-common-dev:amd64 (23.2.1-1ubuntu3.1~22.04.2) ...
Setting up x11-session-utils (7.7+4build2) ...
Setting up xterm (372-1ubuntu1) ... update-alternatives: using /usr/bin/xterm to provide /usr/bin/x-terminal-emulator
(x-terminal-emulator) in auto mode update-alternatives: using /usr/bin/lxterm to provide /usr/bin/x-terminal-emulator
(x-terminal-emulator) in auto mode
Setting up libxmuu-dev:amd64 (2:1.1.3-3) ...
Setting up libxvmc-dev:amd64 (2:1.0.12-2build2) ...
Setting up libfontconfig-dev:amd64 (2.13.1-4.2ubuntu5) ...
Setting up x11-xkb-utils (7.7+5build4) ...
Setting up libxfont-dev (1:2.0.5-1build1) ...
Setting up x11-apps (7.7+8build2) ...
Setting up libxmu-dev:amd64 (2:1.1.3-3) ...
Setting up libfreetype6-dev:amd64 (2.11.1+dfsg-1ubuntu0.2) ...
Setting up libxaw7-dev:amd64 (2:1.0.14-1) ...
Setting up xserver-common (2:21.1.4-2ubuntu1.7~22.04.9) ...
Setting up xserver-xorg-legacy (2:21.1.4-2ubuntu1.7~22.04.9) ...
Setting up libxft-dev:amd64 (2.3.4-1) ...
Setting up libfontconfig1-dev:amd64 (2.13.1-4.2ubuntu5) ...
Setting up xserver-xorg-dev (2:21.1.4-2ubuntu1.7~22.04.9) ...
Setting up xserver-xorg-core (2:21.1.4-2ubuntu1.7~22.04.9) ...
Setting up xorg-dev (1:7.7+23ubuntu2) ...
Setting up xserver-xorg-video-radeon (1:19.1.0-2ubuntu1) ...
Setting up xserver-xorg-input-wacom (1:1.0.0-3ubuntu1) ...
Setting up xserver-xorg-video-fbdev (1:0.5.0-2build1) ...
Setting up xserver-xorg-video-vmware (1:13.3.0-3build1) ...
Setting up xserver-xorg-video-intel (2:2.99.917+git20210115-1) ...
Setting up xserver-xorg-video-vesa (1:2.5.0-1build4) ...
Setting up xserver-xorg-video-qxl (0.1.5+git20200331-3) ...
Setting up xserver-xorg-video-amdgpu (22.0.0-1ubuntu0.2) ... Setting up
xserver-xorg (1:7.7+23ubuntu2) ...
Setting up xserver-xorg-video-nouveau (1:1.0.17-2build1) ...
Setting up xserver-xorg-input-libinput (1.2.1-1) ...
Setting up xserver-xorg-video-ati (1:19.1.0-2ubuntu1) ...
Setting up xorg (1:7.7+23ubuntu2) ...
Setting up xserver-xorg-video-all (1:7.7+23ubuntu2) ...
Setting up xserver-xorg-input-all (1:7.7+23ubuntu2) ... Setting up
language-pack-en (1:22.04+20240212) ...
Setting up language-pack-en-base (1:22.04+20240212) ...
Generating locales (this might take a while)...
en_AG.UTF-8... done   en_AU.UTF-8... done
en_BW.UTF-8... done   en_CA.UTF-8... done
en_DK.UTF-8... done   en_GB.UTF-8... done
en_HK.UTF-8... done   en_IE.UTF-8... done
en_IL.UTF-8... done   en_IN.UTF-8... done
en_NG.UTF-8... done   en_NZ.UTF-8... done
en_PH.UTF-8... done   en_SG.UTF-8... done
en_ZA.UTF-8... done   en_ZM.UTF-8... done
en_ZW.UTF-8... done
Generation complete.
Setting up freesurfer (7.4.1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.6) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for udev (249.11-0ubuntu3.12) ...
Processing triggers for install-info (6.8-4build1) ...
Scanning processes...

Scanning candidates...

Scanning linux images...


Running kernel seems to be up-to-date.

Restarting services...
Service restarts being deferred:
 systemctl restart getty@tty1.service  systemctl
restart networkd-dispatcher.service  systemctl restart
packagekit.service  systemctl restart polkit.service
systemctl restart rsyslog.service  systemctl restart
serial-getty@ttyS0.service  systemctl restart
systemd-journald.service  systemctl restart
systemd-logind.service
/etc/needrestart/restart.d/systemd-manager  systemctl
restart systemd-networkd.service  systemctl restart
systemd-resolved.service  systemctl restart
systemd-udevd.service  systemctl restart
unattended-upgrades.service  systemctl restart
user@1001.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
W: Download is performed unsandboxed as root as file '/home/jaibhatoa/freesurfer_ubuntu22-7.4.1_amd64.deb' couldn't be accessed by user '_apt'. - pkgAcquire::Run (13: Permission denied) jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ tree /home/jaibhatoa/mri
Command 'tree' not found, but can be installed with:
snap install tree  # version 1.8.0+pkg-3fd6, or apt
install tree  # version 2.0.2-1
See 'snap info tree' for additional versions.
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ ls -l | grep freesurfer
-rw-rw-r-- 1 jaibhatoa jaibhatoa 6993078466 Jun 27  2023 freesurfer_ubuntu22-7.4.1_amd64.deb jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ dpkg -l | grep
freesurfer
ii  freesurfer                       7.4.1                                   amd64        freesurfer package
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ ls -la /usr/local/freesurfer/7.4.1 total 416 drwxr-xr-x 20 root root  4096 Apr
7 12:25 .  drwxr-xr-x  3 root root  4096 Apr  7 12:23 ..
-rw-r--r--  1 root root  3240 Jun 14  2023 ASegStatsLUT.txt
-rw-r--r--  1 root root 47514 Jun 14  2023 DefectLUT.txt
-rw-r--r--  1 root root 95285 Jun 14  2023 FreeSurferColorLUT.txt
-rw-r--r--  1 root root 18306 Jun 14  2023 FreeSurferEnv.csh
-rw-r--r--  1 root root 18391 Jun 14  2023 FreeSurferEnv.sh
-rw-r--r--  1 root root 28381 Jun 14  2023 SegmentNoLUT.txt
-rwxr-xr-x  1 root root  1358 Jun 14  2023 SetUpFreeSurfer.csh
-rwxr-xr-x  1 root root  1350 Jun 14  2023 SetUpFreeSurfer.sh
-rw-r--r--  1 root root  4104 Jun 14  2023 Simple_surface_labels2009.txt
-rw-r--r--  1 root root   281 Jun 14  2023 SubCorticalMassLUT.txt -rw-r--r--
1 root root 25476 Jun 14  2023 WMParcStatsLUT.txt drwxr-xr-x 13 root root
12288 Apr  7 12:25 average drwxr-xr-x  2 root root 45056 Apr  7 12:25 bin
-rw-r--r--  1 root root    56 Jun 14  2023 build-stamp.txt
drwxr-xr-x  3 root root  4096 Apr  7 12:24 diffusion drwxr-xr-x  3
root root  4096 Apr  7 12:25 docs drwxr-xr-x  2 root root  4096 Apr
7 12:25 etc drwxr-xr-x  2 root root  4096 Apr  7 12:25 fsafd
drwxr-xr-x  5 root root  4096 Apr  7 12:24 fsfast drwxr-xr-x  9 root
root  4096 Apr  7 12:24 lib drwxr-xr-x  2 root root  4096 Apr  7
12:25 lut drwxr-xr-x  4 root root 12288 Apr  7 12:25 matlab
drwxr-xr-x  9 root root  4096 Apr  7 12:25 mni drwxr-xr-x 10 root
root  4096 Apr  7 12:24 mni-1.4 drwxr-xr-x  3 root root  4096 Apr  7
12:25 models drwxr-xr-x  8 root root  4096 Apr  7 12:25 python
drwxr-xr-x  2 root root  4096 Apr  7 12:25 sessions -rwxr-xr-x  1
root root   134 Jun 14  2023 sources.csh -rwxr-xr-x  1 root root
132 Jun 14  2023 sources.sh drwxr-xr-x 14 root root  4096 Apr  7
12:25 subjects
-rw-r--r--  1 root root  1681 Jun 14  2023 tkmeditParcColorsCMA
drwxr-xr-x  2 root root  4096 Apr  7 12:25 tktools drwxr-xr-x  4 root
root  4096 Apr  7 12:25 trctrain
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ export FREESURFER_HOME=/usr/local/freesurfer/7.4.1/
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ source $FREESURFER_HOME/SetUpFreeSurfer.sh
-------- freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460 --------
Setting up environment for FreeSurfer/FS-FAST (and FSL)
FREESURFER_HOME   /usr/local/freesurfer/7.4.1/
FSFAST_HOME       /usr/local/freesurfer/7.4.1//fsfast
FSF_OUTPUT_FORMAT nii.gz
SUBJECTS_DIR      /usr/local/freesurfer/7.4.1//subjects
INFO: /home/jaibhatoa/matlab/startup.m does not exist ... creating MNI_DIR
/usr/local/freesurfer/7.4.1//mni
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ sudo gsutil cp gs://data--mri--3d--pre-processing/license.txt /usr/local/freesurfer/7.4.1/
Copying gs://data--mri--3d--pre-processing/license.txt...
/ [1 files][  105.0 B/  105.0 B]                                                Operation completed
over 1 objects/105.0 B.
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ mkdir -p ~/mri_processed
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ export SUBJECTS_DIR=~/mri_processed
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ sudo apt update
Hit:1 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-backports InRelease Hit:4
http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done Reading state
information... Done
```

```
All packages are up to date.
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ sudo apt install parallel Reading
package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:   sysstat
Suggested packages:
  ash fish ksh zsh isag
The following NEW packages will be installed:
  parallel sysstat
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 2434 kB of archives.
After this operation, 4521 kB of additional disk space will be used. Do you want
to continue? [Y/n] Y
Get:1 http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy-updates/main amd64 sysstat amd64 12.5.2-2ubuntu0.2 [487 kB] Get:2
http://europe-central2-a.gce.clouds.archive.ubuntu.com/ubuntu jammy/universe amd64 parallel all 20210822+ds-2 [1947 kB]
Fetched 2434 kB in 0s (7779 kB/s)
Preconfiguring packages ...
Selecting previously unselected package sysstat.
(Reading database ... 157137 files and directories currently installed.)
Preparing to unpack .../sysstat_12.5.2-2ubuntu0.2_amd64.deb ...
Unpacking sysstat (12.5.2-2ubuntu0.2) ...
Selecting previously unselected package parallel.
Preparing to unpack .../parallel_20210822+ds-2_all.deb ...
Adding 'diversion of /usr/bin/parallel to /usr/bin/parallel.moreutils by parallel'
Adding 'diversion of /usr/share/man/man1/parallel.1.gz to /usr/share/man/man1/parallel.moreutils.1.gz by parallel'
Unpacking parallel (20210822+ds-2) ...
Setting up sysstat (12.5.2-2ubuntu0.2) ...

Creating config file /etc/default/sysstat with new version
update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode
Created symlink /etc/systemd/system/sysstat.service.wants/sysstat-collect.timer → /lib/systemd/system/sysstat-collect.timer.
Created symlink /etc/systemd/system/sysstat.service.wants/sysstat-summary.timer → /lib/systemd/system/sysstat-summary.timer. Created symlink
/etc/systemd/system/multi-user.target.wants/sysstat.service → /lib/systemd/system/sysstat.service. Setting up parallel (20210822+ds-2) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...

Scanning candidates...

Scanning linux images...


Running kernel seems to be up-to-date.

Restarting services...
Service restarts being deferred:
 systemctl restart getty@tty1.service  systemctl
restart networkd-dispatcher.service  systemctl restart
packagekit.service  systemctl restart polkit.service
systemctl restart rsyslog.service  systemctl restart
serial-getty@ttyS0.service  systemctl restart
systemd-journald.service  systemctl restart
systemd-logind.service
/etc/needrestart/restart.d/systemd-manager  systemctl
restart systemd-networkd.service  systemctl restart
systemd-resolved.service  systemctl restart
systemd-udevd.service  systemctl restart
unattended-upgrades.service  systemctl restart
user@1001.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ mkdir -p ~/mri/REP_1204
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ gsutil -m cp -r gs://data--mri--3d--pre-processing/REP_1204/014_S_4401.nii ~/mri/REP_1204
Copying gs://data--mri--3d--pre-processing/REP_1204/014_S_4401.nii...
/ [1/1 files][ 20.6 MiB/ 20.6 MiB] 100% Done                                    Operation completed
over 1 objects/20.6 MiB.
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ gsutil -m cp -r gs://data--mri--3d--pre-processing/REP_1204/021_S_0337.nii ~/mri/REP_1204
Copying gs://data--mri--3d--pre-processing/REP_1204/021_S_0337.nii...
/ [1/1 files][ 24.5 MiB/ 24.5 MiB] 100% Done                                    Operation completed
over 1 objects/24.5 MiB.
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ ls -R ~/mri/REP_1204
/home/jaibhatoa/mri/REP_1204: 014_S_4401.nii
021_S_0337.nii
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ parallel -j 2 --line-buffer 'recon-all -i {} -subjid $(basename {} .nii) -all -openmp 2' ::: \
/home/jaibhatoa/mri/REP_1204/014_S_4401.nii \
/home/jaibhatoa/mri/REP_1204/021_S_0337.nii

jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ cat
/home/jaibhatoa/mri_processed/014_S_4401/scripts/recon-all.log

Sat Apr 13 09:50:05 UTC 2024
cd /home/jaibhatoa/mri_processed/014_S_4401 setenv
SUBJECTS_DIR /home/jaibhatoa/mri_processed
/usr/local/freesurfer/7.4.1/bin/recon-all -i /home/jaibhatoa/mri/REP_1204/014_S_4401.nii -subjid 014_S_4401 -all -openmp 2

subjid 014_S_4401
setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1 Actual
FREESURFER_HOME /usr/local/freesurfer/7.4.1
build-stamp.txt: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460
Linux  vm4--jb--3d--mri--pre-processing  6.5.0-1016-gcp  #16-22.04.1-Ubuntu  SMP  Sat  Mar    9  00:58:37  UTC  2024  x86_64  x86_64  x86_64  GNU/Linux cputime
unlimited filesize       unlimited datasize       unlimited stacksize      8192 kbytes coredumpsize  0 kbytes memoryuse    unlimited vmemoryuse   unlimited
descriptors   1024 memorylocked 4106804 kbytes maxproc       128306 maxlocks     unlimited maxsignal    128306 maxmessage   819200 maxnice      0 maxrtprio
0 maxrttime     unlimited

               total        used        free      shared  buff/cache   available Mem:
31Gi          324Mi        30Gi       0.0Ki       518Mi        30Gi Swap:             0B
0B             0B

######################################## program
versions used
7.4.1 (freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460)
7.4.1

ProgramName: lta_convert  ProgramArguments: lta_convert -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:  vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_and  ProgramArguments: mri_and -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4--jb
--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_annotation2label  ProgramArguments: mri_annotation2label -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: j aibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_aparc2aseg  ProgramArguments: mri_aparc2aseg -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Ma chine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_surf2volseg  ProgramArguments: mri_surf2volseg -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_binarize  ProgramArguments: mri_binarize -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machin e: vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_ca_label  ProgramArguments: mri_ca_label -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machin e: vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_ca_normalize  ProgramArguments: mri_ca_normalize -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
  Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_ca_register  ProgramArguments: mri_ca_register -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_cc  ProgramArguments: mri_cc -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4--jb--
3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_compute_overlap  ProgramArguments: mri_compute_overlap -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jai bhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_compute_seg_overlap  ProgramArguments: mri_compute_seg_overlap -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:05-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  U ser: jaibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_concat  ProgramArguments: mri_concat -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: v m4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName:  mri_concatenate_lta    ProgramArguments:  mri_concatenate_lta  -all-info   ProgramVersion:  7.4.1    TimeStamp:  2024/04/13-09:50:06-GMT    BuildTime:  Jun  14  2023  03:45:01    BuildStamp:  freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460    User:  jai bhatoa    Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0 mri_convert -all-info
ProgramName: mri_convert  ProgramArguments: mri_convert -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:  vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_diff  ProgramArguments: mri_diff -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4-jb--3d--mri--pre-processing  Platform:
Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_edit_wm_with_aseg  ProgramArguments: mri_edit_wm_with_aseg -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User:  jaibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_em_register  ProgramArguments: mri_em_register -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_fill  ProgramArguments: mri_fill -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4-jb--3d--mri--pre-processing  Platform:
Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_fuse_segmentations  ProgramArguments: mri_fuse_segmentations -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  Use r: jaibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_fwhm  ProgramArguments: mri_fwhm -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4-jb--3d--mri--pre-processing  Platform:
Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_gcut  ProgramArguments: mri_gcut -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4-jb--3d--mri--pre-processing  Platform:
Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_info  ProgramArguments: mri_info -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4-jb--3d--mri--pre-processing  Platform:
Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_label2label  ProgramArguments: mri_label2label -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_label2vol  ProgramArguments: mri_label2vol -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_log_likelihood  ProgramArguments: mri_log_likelihood -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibh atoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_mask  ProgramArguments: mri_mask -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4-jb--3d--mri--pre-processing  Platform:
Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_matrix_multiply  ProgramArguments: mri_matrix_multiply -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jai bhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_normalize  ProgramArguments: mri_normalize -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_normalize_tp2  ProgramArguments: mri_normalize_tp2 -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhat oa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_or  ProgramArguments: mri_or -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4--jb--
3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_relabel_hypointensities  ProgramArguments: mri_relabel_hypointensities -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7e b8460  User: jaibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_relabel_nonwm_hypos  ProgramArguments: mri_relabel_nonwm_hypos -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  U ser: jaibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_remove_neck  ProgramArguments: mri_remove_neck -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
7.4.1

ProgramName: mri_robust_register  ProgramArguments: mri_robust_register -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jai bhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
7.4.1

ProgramName: mri_robust_template  ProgramArguments: mri_robust_template -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jai bhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_anatomical_stats  ProgramArguments: mris_anatomical_stats -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User:  jaibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_ca_label  ProgramArguments: mris_ca_label -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_calc  ProgramArguments: mris_calc -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4
--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_convert  ProgramArguments: mris_convert -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machin e: vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_curvature  ProgramArguments: mris_curvature -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Ma chine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_curvature_stats  ProgramArguments: mris_curvature_stats -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: j aibhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_diff  ProgramArguments: mris_diff -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: vm4
--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_divide_parcellation  ProgramArguments: mris_divide_parcellation -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460
```

```
 User: jaibhatoa  Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_segment  ProgramArguments: mri_segment -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:  vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_segstats  ProgramArguments: mri_segstats -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machin e: vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_euler_number  ProgramArguments: mris_euler_number -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhat oa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_fix_topology  ProgramArguments: mris_fix_topology -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhat oa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_topo_fixer  ProgramArguments: mris_topo_fixer -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_jacobian  ProgramArguments: mris_jacobian -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_label2annot  ProgramArguments: -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
  Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_left_right_register  ProgramArguments: mris_left_right_register -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460
  User: jaibhatoa  Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_place_surface  ProgramArguments: mris_place_surface -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibh atoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mrisp_paint  ProgramArguments: mrisp_paint -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:  vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_register  ProgramArguments: mris_register -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_smooth  ProgramArguments: mris_smooth -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:
 vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_sphere  ProgramArguments: mris_sphere -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:  vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_surface_stats  ProgramArguments: mris_surface_stats -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibh atoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_stats2seg  ProgramArguments: mri_stats2seg -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_thickness  ProgramArguments: mris_thickness -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Ma chine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_thickness_diff  ProgramArguments: mris_thickness_diff -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jai bhatoa  Machine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_topo_fixer  ProgramArguments: mris_topo_fixer -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_surf2surf  ProgramArguments: mri_surf2surf -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_surf2vol  ProgramArguments: mri_surf2vol -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machin e: vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_surfcluster  ProgramArguments: mri_surfcluster -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa
Machine: vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mris_volmask  ProgramArguments: mris_volmask -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine: e: vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_tessellate  ProgramArguments: mri_tessellate -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Ma chine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_vol2surf  ProgramArguments: mri_vol2surf -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machin e: vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_vol2vol  ProgramArguments: mri_vol2vol -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:
 vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_voldiff  ProgramArguments: mri_voldiff -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:  vm4--jb--3d--mri--pre-processing
Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: mri_watershed  ProgramArguments: mri_watershed -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mach ine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
ProgramName: tkregister2  ProgramArguments: tkregister2_cmd1 -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Mac hine:
vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0 mri_motion_correct.fsl 7.4.1 mri_convert -all-info
ProgramName: mri_convert  ProgramArguments: mri_convert -all-info  ProgramVersion: 7.4.1  TimeStamp: 2024/04/13-09:50:06-GMT  BuildTime: Jun 14 2023 03:45:01  BuildStamp: freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460  User: jaibhatoa  Machine:
 vm4--jb--3d--mri--pre-processing  Platform: Linux  PlatformVersion: 6.5.0-1016-gcp  CompilerName: GCC  CompilerVersion: 8.4.0
Program nu_correct, built from:
Package MNI N3, version 1.12.0, compiled by nicks@terrier (x86_64-unknown-linux-gnu) on 2015-06-19 at 01:25:34
########################################
GCADIR /usr/local/freesurfer/7.4.1/average
GCA RB_all_2020-01-02.gca
GCASkull RB_all_withskull_2020_01_02.gca
AvgCurvTif folding.atlas.acfb40.noaparc.i12.2016-08-02.tif
GCSDIR /usr/local/freesurfer/7.4.1/average
GCS DKaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs
#################################### /home/jaibhatoa/mri_processed/014_S_4401  mri_convert

/home/jaibhatoa/mri/REP_1204/014_S_4401.nii /home/jaibhatoa/mri_processed/014_S_4401/mri/orig/001.mgz

mri_convert /home/jaibhatoa/mri/REP_1204/014_S_4401.nii /home/jaibhatoa/mri_processed/014_S_4401/mri/orig/001.mgz reading from
/home/jaibhatoa/mri/REP_1204/014_S_4401.nii...
INFO: This is an unsigned short.
TR=0.00, TE=0.00, TI=0.00, flip angle=0.00 i_ras = (-1, 0, -0) j_ras = (0, 1, -0)
k_ras = (0, 0, 1) writing to
/home/jaibhatoa/mri_processed/014_S_4401/mri/orig/001.mgz...
@#@FSTIME  2024:04:13:09:50:06 mri_convert N 2 e 1.90 S 0.04 U 1.88 P 101% M 28416 F 5 R 5745 W 0 c 7 w 7 I 328 O 20712 L 0.01 0.01 0.00
@#@FSLOADPOST 2024:04:13:09:50:08 mri_convert N 2 0.01 0.01 0.00
#----------------------------------------
### MotionCor Sat Apr 13 09:50:09 UTC 2024
Found 1 runs
/home/jaibhatoa/mri_processed/014_S_4401/mri/orig/001.mgz
Checking for (invalid) multi-frame inputs... Only one run found so motion correction will not be performed. I'll copy the run to rawavg
and continue.  cp /home/jaibhatoa/mri_processed/014_S_4401/mri/orig/001.mgz /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz


 mri_info /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz

rawavg.mgz ========================================
Volume information for /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz
type: MGH     dimensions: 176 x 240 x 256
   voxel sizes: 1.000000, 1.000000, 1.000000
type: USHRT (10)            fov: 256.000
dof: 1
        xstart: -88.0, xend: 88.0
ystart: -120.0, yend: 120.0         zstart:
-128.0, zend: 128.0
           TR: 0.00 msec, TE: 0.00 msec, TI: 0.00 msec, flip angle: 0.00 degrees
nframes: 1        PhEncDir: UNKNOWN        FieldStrength: 0.000000 ras xform present
   xform info: x_r =  -1.0000, y_r =   0.0000, z_r =   0.0000, c_r =     0.4443
 : x_a =   0.0000, y_a =   1.0000, z_a =   0.0000, c_a =     -4.6659             : x_s =
-0.0000, y_s =  -0.0000, z_s =   1.0000, c_s =     0.6295

talairach xfm : Orientation   :
LAS
Primary Slice Direction: axial

voxel to ras transform:
               -1.0000   0.0000   0.0000    88.4443
                0.0000   0.0000   1.0000   0.0000  -124.6659
-0.0000   -0.0000   1.0000  -127.3705                0.0000
0.0000   0.0000   1.0000 voxel-to-ras determinant -1

ras to voxel transform:
               -1.0000  -0.0000  -0.0000    88.4443
               -0.0000   1.0000  -0.0000   124.6659
               -0.0000  -0.0000   1.0000   127.3705
                0.0000   0.0000   0.0000     1.0000
/home/jaibhatoa/mri_processed/014_S_4401  mri_convert /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz

/home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz --conform

mri_convert /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz --conform reading from
/home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz... TR=0.00, TE=0.00, TI=0.00, flip angle=0.00 i_ras = (-1, 0, -0) j_ras = (0, 1, -0) k_ras =
(0, 0, 1) changing data type from ushrt to uchar (noscale = 0)...
MRIchangeType: Building histogram 0 976 1000, flo=0, fhi=0.999, dest_type=0 Reslicing
using trilinear interpolation writing to
/home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz...
@#@FSTIME  2024:04:13:09:50:12 mri_convert N 3 e 2.29 S 0.05 U 2.26 P 101% M 39168 F 0 R 16640 W 0 c 7 w 2 I 0 O 13704 L 0.01 0.01 0.00
@#@FSLOADPOST 2024:04:13:09:50:14 mri_convert N 3 0.01 0.01 0.00  mri_add_xform_to_header -c /home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/talairach.xfm /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz

/home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz

INFO: extension is mgz
@#@FSTIME  2024:04:13:09:50:14 mri_add_xform_to_header N 4 e 0.93 S 0.02 U 0.94 P 104% M 23296 F 0 R 4567 W 0 c 5 w 6 I 0 O 13704 L 0.01 0.01 0.00
@#@FSLOADPOST 2024:04:13:09:50:15 mri_add_xform_to_header N 4 0.17 0.04 0.01  mri_info

/home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz

orig.mgz ========================================
Volume information for /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz
type: MGH     dimensions: 256 x 256 x 256
   voxel sizes: 1.000000, 1.000000, 1.000000
type: UCHAR (0)             fov: 256.000
dof: 1
        xstart: -128.0, xend: 128.0
ystart: -128.0, yend: 128.0         zstart:
-128.0, zend: 128.0
           TR: 0.00 msec, TE: 0.00 msec, TI: 0.00 msec, flip angle: 0.00 degrees
nframes: 1        PhEncDir: UNKNOWN        FieldStrength: 0.000000 ras xform present
   xform info: x_r =  -1.0000, y_r =   0.0000, z_r =   0.0000, c_r =     0.4443
 : x_a =   0.0000, y_a =   0.0000, z_a =   1.0000, c_a =     -4.6659             : x_s =
0.0000, y_s =  -1.0000, z_s =   0.0000, c_s =     0.6295

talairach xfm : /home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/talairach.xfm Orientation   : LIA
Primary Slice Direction: coronal

voxel to ras transform:
               -1.0000   0.0000   0.0000   128.4443
                0.0000   0.0000   1.0000  -132.6659
0.0000  -1.0000   0.0000   128.6295
                0.0000   0.0000   0.0000     1.0000 voxel-to-ras

determinant -1

ras to voxel transform:
               -1.0000  -0.0000  -0.0000   128.4443
               -0.0000  -0.0000  -1.0000   128.6295
               -0.0000   1.0000  -0.0000   132.6659
                0.0000   0.0000   0.0000     1.0000
#----------------------------------------#@# Talairach Sat Apr 13 09:50:15 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/mri  mri_nu_correct.mni --no-rescale --i orig.mgz --o orig_nu.mgz --ants-n4 --n 1
--proto-iters 1000 --distance 50

/usr/bin/bc
/home/jaibhatoa/mri_processed/014_S_4401/mri
/usr/local/freesurfer/7.4.1/bin/mri_nu_correct.mni
--no-rescale --i orig.mgz --o orig_nu.mgz --ants-n4 --n 1 --proto-iters 1000 --distance 50 nIters 1
mri_nu_correct.mni 7.4.1
Linux vm4--jb--3d--mri--pre-processing 6.5.0-1016-gcp #16-22.04.1-Ubuntu SMP Sat Mar  9 00:58:37 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux Sat Apr 13 09:50:15
UTC 2024 tmpdir is ./tmp.mri_nu_correct.mni.2806 cd /home/jaibhatoa/mri_processed/014_S_4401/mri
AntsN4BiasFieldCorrectionFs -i orig.mgz -o ./tmp.mri_nu_correct.mni.2806/nu0.mgz --dtype uchar AntsN4BiasFieldCorrectionFs done
mri_convert ./tmp.mri_nu_correct.mni.2806/nu0.mgz orig_nu.mgz --like orig.mgz --conform mri_convert
./tmp.mri_nu_correct.mni.2806/nu0.mgz orig_nu.mgz --like orig.mgz --conform reading from
./tmp.mri_nu_correct.mni.2806/nu0.mgz... TR=0.00, TE=0.00, TI=0.00, flip angle=0.00 i_ras = (-1, 0,
0) j_ras = (0, 0, -1) k_ras = (0, 1, 0)
INFO: transform src into the like-volume: orig.mgz writing to
orig_nu.mgz...


Sat Apr 13 09:53:20 UTC 2024 mri_nu_correct.mni done
@#@FSTIME  2024:04:13:09:50:15 mri_nu_correct.mni N 12 e 184.95 S 0.35 U 184.67 P 100% M 505080 F 0 R 150242 W 0 c 297 w 94 I 0 O 24752 L 0.17 0.04 0.01
@#@FSLOADPOST 2024:04:13:09:53:20 mri_nu_correct.mni N 12 1.92 0.95 0.38

 talairach_avi --i orig_nu.mgz --xfm transforms/talairach.auto.xfm
```

```
talairach_avi log file is transforms/talairach_avi.log... mv -f /home/jaibhatoa/mri_processed/014_S_4401/mri/talsrcimg_to_711-2C_as_mni_average_305_t4_vox2vox.txt
/home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/talsrcimg_to_711-2C_as_mni_average_305_t4_vox2vox.txt
Started at Sat Apr 13 09:53:20 UTC 2024 Ended   at
Sat Apr 13 09:53:37 UTC 2024 talairach_avi done
@#@FSTIME  2024:04:13:09:53:20 talairach_avi N 4 e 17.07 S 1.41 U 9.71 P 65% M 255360 F 3 R 398168 W 0 c 43 w 193 I 0 O 295264 L 1.92 0.95 0.38
@#@FSLOADPOST 2024:04:13:09:53:37 talairach_avi N 4 1.56 0.92 0.38

 cp transforms/talairach.auto.xfm transforms/talairach.xfm

lta_convert --src orig.mgz --trg /usr/local/freesurfer/7.4.1/average/mni305.cor.mgz --inxfm transforms/talairach.xfm --outlta transforms/talairach.xfm.lta --subject fsaverage --ltavox2vox
7.4.1

--src: orig.mgz src image (geometry).
--trg: /usr/local/freesurfer/7.4.1/average/mni305.cor.mgz trg image (geometry).
--inmni: transforms/talairach.xfm input MNI/XFM transform.
--outlta: transforms/talairach.xfm.lta output LTA.
--s: fsaverage subject name
--ltavox2vox: output LTA as VOX_TO_VOX transform.
 LTA read, type : 1
 1.13208  -0.00709  -0.03048  -1.59703;
 0.03853   1.05783   0.14107  -2.24410;
 0.03741   -0.18720    1.11019   -16.18555;
0.00000    0.00000    0.00000    1.00000; setting
subject to fsaverage
Writing  LTA to file transforms/talairach.xfm.lta... lta_convert
successful.
#---------------------------------------------
### Talairach Failure Detection Sat Apr 13 09:53:39 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/mri  talairach_afd -T

0.005 -xfm transforms/talairach.xfm

talairach_afd: Talairach Transform: transforms/talairach.xfm OK (p=0.8162, pval=0.8469 >= threshold=0.0050)
@#@FSTIME  2024:04:13:09:53:39 talairach_afd N 4 e 0.00 S 0.00 U 0.00 P 66% M 5888 F 0 R 220 W 0 c 0 w 1 I 0 O 0 L 1.56 0.92 0.38
@#@FSLOADPOST 2024:04:13:09:53:40 talairach_afd N 4 1.56 0.92 0.38


 awk -f /usr/local/freesurfer/7.4.1/bin/extract_talairach_avi_QA.awk /home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/talairach_avi.log


 tal_QC_AZS /home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/talairach_avi.log

TalAviQA: 0.98048 z-score: 0
#---------------------------------------------
### Nu Intensity Correction Sat Apr 13 09:53:40 UTC 2024  mri_nu_correct.mni --i orig.mgz --o nu.mgz

--uchar transforms/talairach.xfm --n 2 --ants-n4

/usr/bin/bc
/home/jaibhatoa/mri_processed/014_S_4401/mri
/usr/local/freesurfer/7.4.1/bin/mri_nu_correct.mni
--i orig.mgz --o nu.mgz --uchar transforms/talairach.xfm --n 2 --ants-n4 nIters 2
mri_nu_correct.mni 7.4.1
Linux vm4--jb--3d--mri--pre-processing 6.5.0-1016-gcp #16-22.04.1-Ubuntu SMP Sat Mar  9 00:58:37 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux Sat Apr 13 09:53:40
UTC 2024 tmpdir is ./tmp.mri_nu_correct.mni.3394 cd /home/jaibhatoa/mri_processed/014_S_4401/mri
AntsN4BiasFieldCorrectionFs -i orig.mgz -o ./tmp.mri_nu_correct.mni.3394/nu0.mgz --dtype uchar AntsN4BiasFieldCorrectionFs
done mri_binarize --i ./tmp.mri_nu_correct.mni.3394/nu0.mgz --min -1 --o ./tmp.mri_nu_correct.mni.3394/ones.mgz

7.4.1 cwd /home/jaibhatoa/mri_processed/014_S_4401/mri
cmdline mri_binarize --i ./tmp.mri_nu_correct.mni.3394/nu0.mgz --min -1 --o ./tmp.mri_nu_correct.mni.3394/ones.mgz sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64 user     jaibhatoa

input         ./tmp.mri_nu_correct.mni.3394/nu0.mgz  frame
0    nErode3d           0   nErode2d           0   output
./tmp.mri_nu_correct.mni.3394/ones.mgz
Binarizing based on threshold min
-1 max       +infinity binval
1 binvalnot    0
fstart = 0, fend = 0, nframes = 1 Starting
parallel 1
Found 16777216 values in range
Counting number of voxels in first frame
Found 16777215 voxels in final mask
Writing output to ./tmp.mri_nu_correct.mni.3394/ones.mgz Count: 16777215 16777215.000000 16777216 99.999994 mri_binarize done mri_segstats --id 1 --seg ./tmp.mri_nu_correct.mni.3394/ones.mgz --i
orig.mgz --sum ./tmp.mri_nu_correct.mni.3394/sum.junk --avgwf ./tmp.mri_nu_correct.mni.3394/input.mean.dat

7.4.1 cwd
cmdline mri_segstats --id 1 --seg ./tmp.mri_nu_correct.mni.3394/ones.mgz --i orig.mgz --sum ./tmp.mri_nu_correct.mni.3394/sum.junk --avgwf ./tmp.mri_nu_correct.mni.3394/input.mean.dat sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64 user     jaibhatoa whitesurfname
white
UseRobust  0
Loading ./tmp.mri_nu_correct.mni.3394/ones.mgz
Loading orig.mgz
Voxel Volume is 1 mm^3
Generating list of segmentation ids
Found   1 segmentations
Computing statistics for each segmentation

Reporting on   1 segmentations
Using PrintSegStat
Computing spatial average of each frame

Writing to ./tmp.mri_nu_correct.mni.3394/input.mean.dat mri_segstats done mri_segstats --id 1 --seg ./tmp.mri_nu_correct.mni.3394/ones.mgz --i ./tmp.mri_nu_correct.mni.3394/nu0.mgz --sum ./tmp.mri_nu_correct.mni.3394/sum.junk --avgwf
./tmp.mri_nu_correct.mni.3394/output.mean.dat

7.4.1 cwd
cmdline mri_segstats --id 1 --seg ./tmp.mri_nu_correct.mni.3394/ones.mgz --i ./tmp.mri_nu_correct.mni.3394/nu0.mgz --sum ./tmp.mri_nu_correct.mni.3394/sum.junk --avgwf ./tmp.mri_nu_correct.mni.3394/output.mean.dat sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64 user     jaibhatoa whitesurfname
white
UseRobust  0
Loading ./tmp.mri_nu_correct.mni.3394/ones.mgz
Loading ./tmp.mri_nu_correct.mni.3394/nu0.mgz
Voxel Volume is 1 mm^3
Generating list of segmentation ids
Found   1 segmentations
Computing statistics for each segmentation

Reporting on   1 segmentations
Using PrintSegStat
Computing spatial average of each frame

Writing to ./tmp.mri_nu_correct.mni.3394/output.mean.dat mri_segstats done
mris_calc -o ./tmp.mri_nu_correct.mni.3394/nu0.mgz ./tmp.mri_nu_correct.mni.3394/nu0.mgz mul 1.28165049409759046892
Saving result to './tmp.mri_nu_correct.mni.3394/nu0.mgz' (type = MGH )                  [ ok ] mri_convert
./tmp.mri_nu_correct.mni.3394/nu0.mgz nu.mgz --like orig.mgz mri_convert ./tmp.mri_nu_correct.mni.3394/nu0.mgz
nu.mgz --like orig.mgz reading from ./tmp.mri_nu_correct.mni.3394/nu0.mgz... TR=0.00, TE=0.00, TI=0.00, flip
angle=0.00 i_ras = (-1, 0, 0) j_ras = (0, 0, -1) k_ras = (0, 1, 0)
INFO: transform src into the like-volume: orig.mgz writing to
nu.mgz...
mri_make_uchar nu.mgz transforms/talairach.xfm nu.mgz type change
took 0 minutes and 4 seconds.
FIRST_PERCENTILE 0.010000
WM_PERCENTILE    0.900000
MAX_R 50.000000 i1 = 2, i2 =
46
#mri_make_uchar# mapping  5 118 to  3 110  :  b -2.33409 m 0.948088 : thresh 2.46189 maxsat 271.424 : nzero 7220947 nsat 115


Sat Apr 13 09:56:59 UTC 2024 mri_nu_correct.mni done
@#@FSTIME  2024:04:13:09:53:40 mri_nu_correct.mni N 9 e 199.24 S 1.02 U 199.05 P 100% M 614012 F 0 R 527566 W 0 c 295 w 178 I 0 O 61856 L 1.56 0.92 0.38
@#@FSLOADPOST 2024:04:13:09:56:59 mri_nu_correct.mni N 9 2.00 1.49 0.72  mri_add_xform_to_header -c

/home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/talairach.xfm nu.mgz nu.mgz

INFO: extension is mgz
@#@FSTIME  2024:04:13:09:56:59 mri_add_xform_to_header N 4 e 0.64 S 0.02 U 0.66 P 107% M 23552 F 0 R 4569 W 0 c 4 w 2 I 0 O 10976 L 2.00 1.49 0.72
@#@FSLOADPOST 2024:04:13:09:56:59 mri_add_xform_to_header N 4 2.00 1.49 0.72
#---------------------------------------------
### Intensity Normalization Sat Apr 13 09:56:59 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/mri  mri_normalize -g 1

-seed 1234 -mprage nu.mgz T1.mgz

using max gradient = 1.000
setting seed for random number genererator to 1234 assuming input
volume is MGH (Van der Kouwe) MP-RAGE reading mri_src from
nu.mgz...
normalizing image...
NOT doing gentle normalization with control points/label talairach transform
 1.13208  -0.00709  -0.03048  -1.59703;
 0.03853   1.05783   0.14107  -2.24410;
 0.03741   -0.18720    1.11019   -16.18555;
0.00000    0.00000    0.00000    1.00000;
processing without aseg, noId=0
MRInormInit():
INFO: Modifying talairach volume c_(r,a,s) based on average_305
MRInormalize():
MRIsplineNormalize(): npeaks = 21 Starting
OpenSpline(): npoints = 21 building Voronoi diagram...
performing soap bubble smoothing, sigma = 8...

Iterating 2 times
---------------------------------3d normalization pass
1 of 2 white matter peak found at 110 white matter
peak found at 108 gm peak at 72 (72), valley at 51
(51) csf peak at 37, setting threshold to 60 building
Voronoi diagram... performing soap bubble smoothing,
sigma = 8...
---------------------------------3d normalization pass 2
of 2 white matter peak found at 110 white matter peak
found at 110 gm peak at 69 (69), valley at 47 (47) csf
peak at 35, setting threshold to 57 building Voronoi
diagram... performing soap bubble smoothing, sigma =
8... Done iterating
-----------------------------------writing output to T1.mgz
3D bias adjustment took 1 minutes and 22 seconds.
@#@FSTIME  2024:04:13:09:56:59 mri_normalize N 7 e 82.22 S 0.57 U 90.14 P 110% M 584184 F 0 R 267483 W 0 c 172 w 5 I 0 O 11032 L 2.00 1.49 0.72 @#@FSLOADPOST 2024:04:13:09:58:22
mri_normalize N 7 2.27 1.70 0.86
#---------------------------------------------
### Skull Stripping Sat Apr 13 09:58:22 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri  mri_em_register -skull nu.mgz

/usr/local/freesurfer/7.4.1/average/RB_all_withskull_2020_01_02.gca transforms/talairach_with_skull.lta aligning to atlas containing skull, setting

unknown_nbr_spacing = 5

== Number of threads available to mri_em_register for OpenMP = 2 == reading 1 input
volumes...
logging results to talairach_with_skull.log reading
'/usr/local/freesurfer/7.4.1/average/RB_all_withskull_2020_01_02.gca'...
GCAread took 0 minutes and 1 seconds.
average std = 23.0   using min determinant for regularization = 52.8 0 singular
and 9205 ill-conditioned covariance matrices regularized reading 'nu.mgz'...
freeing gibbs priors...done. accounting for voxel sizes in initial transform
bounding unknown intensity as < 8.9 or > 556.0 total sample mean = 77.3 (1403
zeros) ************************************************** spacing=8, using 3292
sample points, tol=1.00e-05... **************************************************
register_mri: find_optimal_transform
```

```
find_optimal_transform: nsamples 3292, passno 0, spacing 8 resetting
wm mean[0]: 100 --> 108 resetting gm mean[0]: 61 --> 61 input volume
#1 is the most T1-like using real data threshold=7.0
skull bounding box = (56, 32, 26) --> (200, 255, 230) finding center of left hemi
white matter using (104, 106, 128) as brain centroid of
Right_Cerebral_White_Matter... MRImask(): AllowDiffGeom = 1
mean wm in atlas = 108, using box (86,78,103) --> (121, 133,153) to find MRI wm before
smoothing, mri peak at 106 robust fit to distribution - 106 +- 6.9
after smoothing, mri peak at 107, scaling input intensities by 1.009 scaling
channel 0 by 1.00935 initial log_p = -4.448
****************************************************
First Search limited to translation only.
************************************************** max log p
=    -4.451419 @ (0.000, 0.000, 0.000) max log p =
-4.371224 @ (-5.263, 5.263, -5.263) max log p =
-4.327760 @ (7.895, 2.632, 2.632) max log p =   -4.302887
@ (-1.316, 3.947, -1.316) max log p =    -4.280244 @
(-0.658, -1.974, 0.658) max log p =    -4.280244 @ (0.000,
0.000, 0.000) max log p =    -4.280244 @ (0.000, 0.000,
0.000) max log p =    -4.280244 @ (0.000, 0.000, 0.000)
Found translation: (0.7, 9.9, -3.3): log p = -4.280
****************************************
Nine parameter search.  iteration 0 nscales = 0 ...
****************************************
Result so far: scale 1.000: max_log_p=-3.970, old_max_log_p =-4.280 (thresh=-4.3)
 1.15000   0.00000   0.00000  -18.00879;  0.00000
1.19413   0.31997  -44.92532;
 0.00000    -0.27532      1.02750      23.59617;
0.00000       0.00000       0.00000      1.00000;
iteration  took  0  minutes  and  36  seconds.
****************************************
Nine parameter search.  iteration 1 nscales = 0 ...
****************************************
Result so far: scale 1.000: max_log_p=-3.970, old_max_log_p =-3.970 (thresh=-4.0)
 1.15000   0.00000   0.00000  -18.00879;  0.00000
1.19413   0.31997  -44.92532;
  0.00000    -0.27532      1.02750      23.59617;
0.00000   0.00000   0.00000   1.00000; reducing
scale to 0.2500 iteration took 0 minutes and 35
seconds.
****************************************
Nine parameter search.  iteration 2 nscales = 1 ...
****************************************
Result so far: scale 0.250: max_log_p=-3.889, old_max_log_p =-3.970 (thresh=-4.0)
 1.10628  -0.00398   0.03600  -18.09666;
 0.00000   1.19612   0.17955  -30.38489;
-0.03554    -0.11915       1.07904      4.21060;
0.00000       0.00000       0.00000      1.00000;
iteration  took  0  minutes  and  33  seconds.
****************************************
Nine parameter search.  iteration 3 nscales = 1 ...
****************************************
Result so far: scale 0.250: max_log_p=-3.888, old_max_log_p =-3.889 (thresh=-3.9)
 1.10628  -0.00398   0.03600  -18.09666;
 0.00000   1.17369   0.17618  -27.15061;
-0.03554    -0.11915       1.07904      4.21060;
0.00000   0.00000   0.00000   1.00000; reducing
scale to 0.0625 iteration took 0 minutes and 33
seconds.
****************************************
Nine parameter search.  iteration 4 nscales = 2 ...
****************************************
Result so far: scale 0.062: max_log_p=-3.860, old_max_log_p =-3.888 (thresh=-3.9)
 1.10526  -0.02155   0.01568  -13.82939;
 0.01875   1.17942   0.15934  -29.20477;
-0.01745    -0.10010       1.08348      -0.06737;
0.00000       0.00000       0.00000      1.00000;
iteration  took  0  minutes  and  32  seconds.
****************************************
Nine parameter search.  iteration 5 nscales = 2 ...
****************************************
Result so far: scale 0.062: max_log_p=-3.860, old_max_log_p =-3.860 (thresh=-3.9)
 1.10656  -0.02157   0.01570  -13.99219;
 0.01875   1.17942   0.15934  -29.20477;
-0.01743    -0.09998       1.08222      0.06298;
0.00000   0.00000   0.00000   1.00000; nsamples
3292
Quasinewton: input matrix
 1.10656  -0.02157   0.01570  -13.99219;
 0.01875   1.17942   0.15934  -29.20477;
-0.01743  -0.09998   1.08222   0.06298;
 0.00000   0.00000   0.00000   1.00000;
 IFLAG= -1  LINE SEARCH FAILED. SEE DOCUMENTATION OF ROUTINE MCSRCH ERROR RETURN OF LINE SEARCH: INFO= 3 POSSIBLE CAUSES: FUNCTION OR GRADIENT ARE INCORRECT OR INCORRECT TOLERANCESoutof QuasiNewtonEMA: 008: -log(p) =   -0.0  tol 0.000010
Resulting transform:
 1.10656  -0.02157   0.01570  -13.99219;
 0.01875   1.17942   0.15934  -29.20477;
-0.01743  -0.09998   1.08222   0.06298;  0.00000
0.00000   0.00000   1.00000;

pass  1,  spacing  8:  log(p)  =  -3.860  (old=-4.448)
transform  before  final  EM align:   1.10656   -0.02157
0.01570  -13.99219;
 0.01875   1.17942   0.15934  -29.20477;
-0.01743  -0.09998   1.08222   0.06298;
 0.00000   0.00000   0.00000   1.00000;

****************************************************
 EM alignment process ...
 Computing final MAP estimate using 364986 samples.
************************************************** dt =
5.00e-06, momentum=0.80, tol=1.00e-07
1_intensity = 1.0000
Aligning input volume to GCA...
Transform matrix
 1.10656  -0.02157   0.01570  -13.99219;
 0.01875   1.17942   0.15934  -29.20477;
-0.01743    -0.09998       1.08222      0.06298;
0.00000   0.00000   0.00000   1.00000; nsamples
364986
Quasinewton: input matrix
 1.10656  -0.02157   0.01570  -13.99219;
 0.01875   1.17942   0.15934  -29.20477;
-0.01743  -0.09998   1.08222   0.06298;
 0.00000   0.00000   0.00000   1.00000;
 IFLAG= -1  LINE SEARCH FAILED. SEE DOCUMENTATION OF ROUTINE MCSRCH ERROR RETURN OF LINE SEARCH: INFO= 6 POSSIBLE CAUSES: FUNCTION OR GRADIENT ARE INCORRECT OR INCORRECT TOLERANCESoutof QuasiNewtonEMA: 010: -log(p) =    4.3  tol 0.000000 final transform:
 1.10656  -0.02157   0.01570  -13.99219;
 0.01875   1.17942   0.15934  -29.20477;
-0.01743  -0.09998   1.08222   0.06298;  0.00000
0.00000   0.00000   1.00000;

writing output transformation to transforms/talairach_with_skull.lta...
#VMPC# mri_em_register VmPeak  794656
FSRUNTIME@ mri_em_register  0.0678 hours 2 threads registration took 4
minutes and 4 seconds.
@#@FSTIME  2024:04:13:09:58:22 mri_em_register N 4 e 244.11 S 0.97 U 455.30 P 186% M 629208 F 10 R 166614 W 0 c 841 w 54 I 151120 O 32 L 2.27 1.70 0.86
@#@FSLOADPOST 2024:04:13:10:02:26 mri_em_register N 4 3.45 2.82 1.53  mri_watershed -T1 -brain_atlas /usr/local/freesurfer/7.4.1/average/RB_all_withskull_2020_01_02.gca

transforms/talairach_with_skull.lta T1.mgz brainmask.auto.mgz


Mode:          T1 normalized volume
Mode:          Use the information of atlas (default parms, --help for details)

****************************************************
The input file is T1.mgz
The output file is brainmask.auto.mgz
Weighting the input with atlas information before watershed

************************WATERSHED************************** Sorting...
      first estimation of the COG coord: x=126 y=105 z=115 r=89       first
estimation of the main basin volume: 2992269 voxels
      Looking for seedpoints
        2 found in the cerebellum          16 found in the
rest of the brain          global maximum in x=109, y=90,
z=79, Imax=255
      CSF=17, WM_intensity=110, WM_VARIANCE=5
      WM_MIN=110, WM_HALF_MIN=110, WM_HALF_MAX=110, WM_MAX=110
preflooding height equal to 10 percent done. Analyze...

      main basin size=1900329383507755 voxels, voxel volume =1.000
= 1900329383507755 mmm3 = 1900329352298.496 cm3 done.
PostAnalyze...Basin Prior
 74 basins merged thanks to atlas
      ***** 0 basin(s) merged in 1 iteration(s)       *****
0 voxel(s) added to the main basin done.
Weighting the input with prior template

***************TEMPLATE DEFORMATION****************

      second estimation of the COG coord: x=126,y=109, z=109, r=9454 iterations
^^^^^^^ couldn't find WM with original limits - expanding ^^^^^^

   GLOBAL      CSF_MIN=0, CSF_intensity=9, CSF_MAX=50 , nb = 44874
  RIGHT_CER    CSF_MIN=0, CSF_intensity=9, CSF_MAX=29 , nb = 3078
  LEFT_CER     CSF_MIN=0, CSF_intensity=7, CSF_MAX=30 , nb = 2574
  RIGHT_BRAIN  CSF_MIN=0, CSF_intensity=19, CSF_MAX=47 , nb = 19242
  LEFT_BRAIN   CSF_MIN=0, CSF_intensity=9, CSF_MAX=48 , nb = 19440
     OTHER     CSF_MIN=1, CSF_intensity=23, CSF_MAX=37 , nb = 540
                    CSF_MAX  TRANSITION  GM_MIN  GM      GLOBAL
   before analyzing :     50,       44,       42,   66   after
analyzing :    35,       44,       44,   49      RIGHT_CER
   before analyzing :     29,       35,       44,   69   after
analyzing :    29,       41,       44,   48    LEFT_CER
   before analyzing :     30,       39,       47,   67   after
analyzing :    30,       44,       47,   49    RIGHT_BRAIN
   before analyzing :     47,       43,       41,   66   after
analyzing :    36,       43,       43,   48    LEFT_BRAIN
   before analyzing :     48,       44,       42,   66   after
analyzing :    34,       44,       44,   49      OTHER
   before analyzing :     37,       38,       42,   66   after
analyzing :    37,       40,       42,   46
mri_strip_skull: done peeling brain       highly tesselated
surface with 10242 vertices       matching...59 iterations

*********************VALIDATION*********************
curvature mean = -0.014, std = 0.010 curvature mean = 67.782,
std = 6.958
```

```
No Rigid alignment: -atlas Mode Off (basic atlas / no registration)
before rotation: sse = 1.51, sigma = 2.65       after  rotation: sse = 1.51,
sigma = 2.65
Localization of inacurate regions: Erosion-Dilation steps       the
sse mean is  1.56, its var is  2.46       before Erosion-Dilatation
0.16% of inacurate vertices       after  Erosion-Dilatation  0.00% of
inacurate vertices
      Validation of the shape of the surface done.
Scaling of atlas fields onto current surface fields

********FINAL ITERATIVE TEMPLATE DEFORMATION********
Compute Local values csf/gray Fine

Segmentation...42 iterations

mri_strip_skull: done peeling brain


Brain Size = 1493482 voxels, voxel volume = 1.000 mm3
           = 1493482 mmm3 = 1493.482 cm3


******************************
Saving brainmask.auto.mgz done
mri_watershed done
@#@FSTIME  2024:04:13:10:02:26 mri_watershed N 6 e 13.97 S 0.37 U 15.18 P 111% M 822612 F 10 R 208495 W 0 c 46 w 160 I 9800 O 2552 L 3.45 2.82 1.53
@#@FSLOADPOST 2024:04:13:10:02:40 mri_watershed N 6 3.23 2.80 1.54  cp

brainmask.auto.mgz brainmask.mgz

#--------------------------------------
### EM Registration Sat Apr 13 10:02:41 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri  mri_em_register -uns 3 -mask brainmask.mgz nu.mgz
/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca transforms/talairach.lta

setting unknown_nbr_spacing = 3 using MR volume brainmask.mgz
to mask input volume...

== Number of threads available to mri_em_register for OpenMP = 2 == reading 1 input
volumes...
logging results to talairach.log reading
'/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca'...
GCAread took 0 minutes and 1 seconds. average std = 7.2   using min
determinant for regularization = 5.2 0 singular and 884 ill-conditioned
covariance matrices regularized reading 'nu.mgz'...
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1 MRImask():
AllowDiffGeom = 1 freeing gibbs
priors...done.
accounting for voxel sizes in initial transform bounding
unknown intensity as < 5.9 or > 519.0 total sample mean =
79.1 (1017 zeros)
********************************************** spacing=8, using
2841 sample points, tol=1.00e-05...
********************************************** register_mri:
find_optimal_transform
find_optimal_transform: nsamples 2841, passno 0, spacing 8 resetting
wm mean[0]: 98 --> 107 resetting gm mean[0]: 61 --> 61 input volume
#1 is the most T1-like using real data threshold=17.0
skull bounding box = (61, 50, 32) --> (193, 176, 198) finding center of left hemi
white matter using (105, 92, 115) as brain centroid of
Right_Cerebral_White_Matter... MRImask(): AllowDiffGeom = 1
mean wm in atlas = 107, using box (89,77,95) --> (121, 107,135) to find MRI wm before
smoothing, mri peak at 106 robust fit to distribution - 105 +- 6.0
after smoothing, mri peak at 106, scaling input intensities by 1.009 scaling
channel 0 by 1.00943 initial log_p = -4.057
**********************************************
First Search limited to translation only.
********************************************** max log p =
-4.069658 @ (0.000, 0.000, 0.000) max log p =    -3.878971 @
(-5.263, 5.263, -5.263) max log p =    -3.806794 @ (2.632,
2.632, 2.632) max log p =    -3.765164 @ (1.316, 1.316,
-3.947) max log p =    -3.751425 @ (1.974, 0.658, 1.974) max
log p =    -3.741437 @ (-1.645, -0.987, -3.618) max log p =
-3.741437 @ (0.000, 0.000, 0.000) max log p =    -3.741437 @
(0.000, 0.000, 0.000) Found translation: (-1.0, 8.9, -8.2):
log p = -3.741
****************************************
Nine parameter search.  iteration 0 nscales = 0 ...
****************************************
Result so far: scale 1.000: max_log_p=-3.579, old_max_log_p =-3.741 (thresh=-3.7)   1.06375
0.00000    0.00000   -9.13339;   0.00000    1.06375    0.00000    1.84302;   0.00000   0.00000
1.00000   -8.22369;
  0.00000      0.00000      0.00000      1.00000;
iteration  took  0  minutes  and  32  seconds.
****************************************
Nine parameter search.  iteration 1 nscales = 0 ...
****************************************
Result so far: scale 1.000: max_log_p=-3.579, old_max_log_p =-3.579 (thresh=-3.6)   1.06375
0.00000    0.00000   -9.13339;   0.00000    1.06375    0.00000    1.84302;   0.00000   0.00000
1.00000   -8.22369;
  0.00000      0.00000      0.00000      1.00000;
reducing  scale  to  0.2500  iteration  took  0
minutes        and        33        seconds.
****************************************
Nine parameter search.  iteration 2 nscales = 1 ...
****************************************
Result so far: scale 0.250: max_log_p=-3.471, old_max_log_p =-3.579 (thresh=-3.6)
  1.08169    -0.03878     0.03020   -10.70057;
0.03390     1.08854     0.16760   -24.15375;
-0.03144    -0.17248     0.96677    22.42932;
0.00000     0.00000     0.00000     1.00000;
iteration  took  0  minutes  and  32  seconds.
****************************************
Nine parameter search.  iteration 3 nscales = 1 ...
****************************************
Result so far: scale 0.250: max_log_p=-3.437, old_max_log_p =-3.471 (thresh=-3.5)   1.08169
-0.03878    0.03020  -10.70057;   0.03390    1.08854   0.16760  -24.15375; -0.03262  -0.17894
1.00302    19.31714;   0.00000    0.00000   0.00000   1.00000; iteration took 0 minutes and 31
seconds. ****************************************
Nine parameter search.  iteration 4 nscales = 1 ...
****************************************
Result so far: scale 0.250: max_log_p=-3.437, old_max_log_p =-3.437 (thresh=-3.4)
  1.08169    -0.03878     0.03020   -10.70057;
0.03390     1.08854     0.16760   -24.15375;
-0.03262    -0.17894     1.00302    19.31714;
0.00000     0.00000     0.00000     1.00000; reducing
scale  to  0.0625 iteration took 0 minutes and 31
seconds.
****************************************
Nine parameter search.  iteration 5 nscales = 2 ...
****************************************
Result so far: scale 0.062: max_log_p=-3.411, old_max_log_p =-3.437 (thresh=-3.4)
  1.08053    -0.02236     0.04112   -13.10222;
0.01626     1.09033     0.16715   -22.04401;
-0.04144    -0.17862     1.00274    19.97355;
0.00000     0.00000     0.00000     1.00000;
iteration  took  0  minutes  and  29  seconds.
****************************************
Nine parameter search.  iteration 6 nscales = 2 ...
****************************************
Result so far: scale 0.062: max_log_p=-3.395, old_max_log_p =-3.411 (thresh=-3.4)   1.08053
-0.02236    0.04112  -13.10222;   0.01632    1.09416   0.16774  -22.54127; -0.04149  -0.17883
1.00392    19.87342;   0.00000    0.00000   0.00000   1.00000; iteration took 0 minutes and 29
seconds. ****************************************
Nine parameter search.  iteration 7 nscales = 2 ...
****************************************
Result so far: scale 0.062: max_log_p=-3.395, old_max_log_p =-3.395 (thresh=-3.4)   1.08053
-0.02236    0.04112  -13.10222;   0.01632    1.09416   0.16774  -22.54127; -0.04149  -0.17883
1.00392   19.87342;   0.00000   0.00000   0.00000   1.00000; min search scale 0.025000 reached
****************************************
Computing MAP estimate using 2841 samples...
********************************************************** dt =
5.00e-06, momentum=0.80, tol=1.00e-05
1_intensity = 1.0000
Aligning input volume to GCA...
Transform matrix
  1.08053    -0.02236     0.04112   -13.10222;
0.01632     1.09416     0.16774   -22.54127;
-0.04149    -0.17883     1.00392    19.87342;
0.00000   0.00000   0.00000   1.00000; nsamples
2841
Quasinewton: input matrix
  1.08053    -0.02236     0.04112   -13.10222;
0.01632     1.09416     0.16774   -22.54127;
-0.04149  -0.17883   1.00392   19.87342;
 0.00000   0.00000   0.00000   1.00000;
 IFLAG= -1  LINE SEARCH FAILED. SEE DOCUMENTATION OF ROUTINE MCSRCH ERROR RETURN OF LINE SEARCH: INFO= 4 POSSIBLE CAUSES: FUNCTION OR GRADIENT ARE INCORRECT OR INCORRECT TOLERANCESoutof QuasiNewtonEMA: 010: -log(p) =   -0.0  tol 0.000010
Resulting transform:
  1.08053    -0.02236     0.04112   -13.10222;
0.01632     1.09416     0.16774   -22.54127;
-0.04149    -0.17883     1.00392    19.87342;
0.00000   0.00000   0.00000   1.00000;

pass  1,  spacing  8:  log(p)  =  -3.395  (old=-4.057)
transform  before  final EM align:   1.08053   -0.02236
0.04112   -13.10222;    0.01632    1.09416    0.16774
-22.54127; -0.04149  -0.17883   1.00392   19.87342;
 0.00000   0.00000   0.00000   1.00000;

****************************************************
 EM alignment process ...
 Computing final MAP estimate using 315638 samples.
********************************************************** dt =
5.00e-06, momentum=0.80, tol=1.00e-07
1_intensity = 1.0000
Aligning input volume to GCA...
Transform matrix
  1.08053    -0.02236     0.04112   -13.10222;
0.01632     1.09416     0.16774   -22.54127;
-0.04149    -0.17883     1.00392    19.87342;
0.00000   0.00000   0.00000   1.00000; nsamples
315638
Quasinewton: input matrix
  1.08053    -0.02236     0.04112   -13.10222;
0.01632     1.09416     0.16774   -22.54127;
-0.04149    -0.17883     1.00392    19.87342;
0.00000     0.00000     0.00000     1.00000;
dfp_em_step_func: 011: -log(p) = 3.9
after pass:transform: ( 1.08, -0.02, 0.04, -13.10)
                      ( 0.02, 1.09, 0.17, -22.54)
( -0.04, -0.18, 1.00, 19.87) dfp_em_step_func: 012: -log(p)
= 3.9
after pass:transform: ( 1.08, -0.02, 0.04, -13.10)
                      ( 0.02, 1.09, 0.17, -22.54)
( -0.04, -0.18, 1.00, 19.87) dfp_em_step_func: 013: -log(p)
= 3.9
after pass:transform: ( 1.08, -0.02, 0.04, -13.10)
```

```
                        ( 0.02, 1.09, 0.17, -22.54)
( -0.04, -0.18, 1.00, 19.87) dfp_em_step_func: 014: -log(p)
= 3.9
after pass:transform: ( 1.08, -0.02, 0.04, -13.10)
                        ( 0.02, 1.09, 0.17, -22.54)
                        ( -0.04, -0.18, 1.00, 19.87)
 lFLAG= -1  LINE SEARCH FAILED. SEE DOCUMENTATION OF ROUTINE MCSRCH ERROR RETURN OF LINE SEARCH: INFO= 3 POSSIBLE CAUSES: FUNCTION OR GRADIENT ARE INCORRECT OR INCORRECT TOLERANCESpass 2 through quasi-newton minimization...
 lFLAG= -1  LINE SEARCH FAILED. SEE DOCUMENTATION OF ROUTINE MCSRCH ERROR RETURN OF LINE SEARCH: INFO= 3 POSSIBLE CAUSES: FUNCTION OR GRADIENT ARE INCORRECT OR INCORRECT TOLERANCESoutof QuasiNewtonEMA: 016: -log(p) =    3.9  tol 0.000000 final transform:
  1.08089   -0.02208    0.04139  -13.10222;  0.01657    1.09441    0.16802
-22.54127; -0.04140  -0.17868    1.00406   19.87342;  0.00000    0.00000
0.00000          1.00000;   writing   output   transformation    to
transforms/talairach.lta... #VMPC# mri_em_register VmPeak  782100
FSRUNTIME@ mri_em_register  0.0847 hours 2 threads registration took 5
minutes and 5 seconds.
@#@FSTIME  2024:04:13:10:02:41 mri_em_register N 7 e 305.02 S 1.12 U 560.87 P 184% M 616568 F 0 R 166645 W 0 c 857 w 91 I 139952 O 40 L 3.13 2.78 1.54
@#@FSLOADPOST 2024:04:13:10:07:46 mri_em_register N 7 3.55 3.42 2.18
#----------------------------------------
### CA Normalize Sat Apr 13 10:07:46 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri  mri_ca_normalize -c ctrl_pts.mgz -mask brainmask.mgz nu.mgz
/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca transforms/talairach.lta norm.mgz

writing control point volume to ctrl_pts.mgz using MR volume
brainmask.mgz to mask input volume...
reading 1 input volume reading atlas from
'/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca'... reading transform from
'transforms/talairach.lta'...
reading input volume from nu.mgz...
resetting wm mean[0]: 98 --> 107 resetting
gm mean[0]: 61 --> 61 input volume #1 is
the most T1-like using real data
threshold=17.0
skull bounding box = (61, 50, 32) --> (193, 176, 198) finding center of left hemi
white matter using (105, 92, 115) as brain centroid of
Right_Cerebral_White_Matter...
mean wm in atlas = 107, using box (89,77,95) --> (121, 107,135) to find MRI wm before
smoothing, mri peak at 106 robust fit to distribution - 105 +- 6.0
after smoothing, mri peak at 106, scaling input intensities by 1.009 scaling
channel 0 by 1.00943 using 246437 sample points...
INFO: compute sample coordinates transform
  1.08089    -0.02208     0.04139   -13.10222;
0.01657      1.09441      0.16802    -22.54127;
-0.04140  -0.17868    1.00406   19.87342;
  0.00000    0.00000     0.00000     1.00000; INFO: transform used
finding  control  points  in  Left_Cerebral_White_Matter....  found
40230 control points for structure... bounding box (126, 50, 35)
--> (189, 153, 198)
Left_Cerebral_White_Matter: limiting intensities to 97.0 --> 132.0
0 of 15 (0.0%) samples deleted finding control points in
Right_Cerebral_White_Matter....
found 39478 control points for structure... bounding box
(68, 52, 33) --> (128, 156, 198)
Right_Cerebral_White_Matter: limiting intensities to 92.0 --> 132.0
0 of 13 (0.0%) samples deleted finding control points in
Left_Cerebellum_White_Matter.... found 3105 control points for
structure...
bounding box (130, 128, 62) --> (175, 170, 115)
Left_Cerebellum_White_Matter: limiting intensities to 106.0 --> 132.0
2 of 10 (20.0%) samples deleted finding control points in
Right_Cerebellum_White_Matter....
found 2710 control points for structure... bounding box
(88, 128, 58) --> (129, 169, 115)
Right_Cerebellum_White_Matter: limiting intensities to 115.0 --> 132.0
23 of 30 (76.7%) samples deleted finding control
points in Brain_Stem.... found 3475 control
points for structure...
bounding box (112, 121, 97) --> (144, 183, 126) Brain_Stem:
limiting intensities to 102.0 --> 132.0
9 of 19 (47.4%) samples deleted using 87 total control points for
intensity normalization... bias field = 0.847 +- 0.095 0 of 53 control
points discarded finding control points in
Left_Cerebral_White_Matter....
found 40230 control points for structure... bounding box
(126, 50, 35) --> (189, 153, 198)
Left_Cerebral_White_Matter: limiting intensities to 95.0 --> 132.0
43 of 119 (36.1%) samples deleted finding control points in
Right_Cerebral_White_Matter....
found 39478 control points for structure... bounding box
(68, 52, 33) --> (128, 156, 198)
Right_Cerebral_White_Matter: limiting intensities to 88.0 --> 132.0
1 of 129 (0.8%) samples deleted finding control points in
Left_Cerebellum_White_Matter....
found 3105 control points for structure...
bounding box (130, 128, 62) --> (175, 170, 115)
Left_Cerebellum_White_Matter: limiting intensities to 88.0 --> 132.0
11 of 47 (23.4%) samples deleted finding control points in
Right_Cerebellum_White_Matter....
found 2710 control points for structure... bounding box
(88, 128, 58) --> (129, 169, 115)
Right_Cerebellum_White_Matter: limiting intensities to 88.0 --> 132.0
16 of 48 (33.3%) samples deleted finding control
points in Brain_Stem.... found 3475 control
points for structure...
bounding box (112, 121, 97) --> (144, 183, 126) Brain_Stem:
limiting intensities to 88.0 --> 132.0
55 of 84 (65.5%) samples deleted using 427 total control points for
intensity normalization...
bias field = 1.021 +- 0.080 0 of 300 control points discarded
finding control points in Left_Cerebral_White_Matter.... found
40230 control points for structure... bounding box (126, 50, 35)
--> (189, 153, 198)
Left_Cerebral_White_Matter: limiting intensities to 88.0 --> 132.0
0 of 217 (0.0%) samples deleted finding control points in
Right_Cerebral_White_Matter.... found 39478 control points for
structure... bounding box (68, 52, 33) --> (128, 156, 198)
Right_Cerebral_White_Matter: limiting intensities to 102.0 --> 132.0
149 of 339 (44.0%) samples deleted finding control points in
Left_Cerebellum_White_Matter.... found 3105 control points for
structure...
bounding box (130, 128, 62) --> (175, 170, 115)
Left_Cerebellum_White_Matter: limiting intensities to 88.0 --> 132.0
38 of 78 (48.7%) samples deleted finding control points in
Right_Cerebellum_White_Matter.... found 2710 control points for
structure... bounding box (88, 128, 58) --> (129, 169, 115)
Right_Cerebellum_White_Matter: limiting intensities to 88.0 --> 132.0
38 of 67 (56.7%) samples deleted finding control
points in Brain_Stem.... found 3475 control
points for structure...
bounding box (112, 121, 97) --> (144, 183, 126) Brain_Stem:
limiting intensities to 88.0 --> 132.0
93 of 131 (71.0%) samples deleted using 832 total control points for
intensity normalization... bias field = 0.995 +- 0.057 0 of 512 control
points discarded writing normalized volume to norm.mgz... writing
control points to ctrl_pts.mgz freeing GCA...done. normalization took 1
minutes and 5 seconds.
@#@FSTIME  2024:04:13:10:07:46 mri_ca_normalize N 8 e 65.31 S 0.60 U 65.57 P 101% M 680484 F 7 R 408704 W 0 c 151 w 98 I 1440 O 3456 L 3.55 3.42 2.18
@#@FSLOADPOST 2024:04:13:10:08:51 mri_ca_normalize N 8 2.55 3.15 2.17
#----------------------------------------
### CA Reg Sat Apr 13 10:08:51 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri  mri_ca_register -nobigventricles -T transforms/talairach.lta -align-after -mask brainmask.mgz norm.mgz
/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca transforms/talairach.m3z

not handling expanded ventricles... using previously computed transform
transforms/talairach.lta renormalizing sequences with structure alignment,
equivalent to:
       -renormalize
       -regularize_mean 0.500         -regularize 0.500 using
MR volume brainmask.mgz to mask input volume...

== Number of threads available to mri_ca_register for OpenMP = 2 == reading 1 input
volumes...
logging results to talairach.log reading input volume 'norm.mgz'... reading GCA
'/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca'... label assignment
complete, 0 changed (0.00%) freeing gibbs priors...done.
average std[0] = 5.0 Starting
GCAMregister()
label assignment complete, 0 changed (0.00%) npasses = 1,
nlevels = 6
#pass# 1 of 1 ********************** enabling
zero nodes setting smoothness cost coefficient to
0.156

#GCAMreg# pass 0 level1 5 level2 0 tsec 0 sigma 2
l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.16 tol=2.50e-01, dt=5.00e-02, exp_k=20.0, momentum=0.90, levels=6, niter=500,
lbl_dist=10.00, avgs=256, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.877466









#GCAMreg# pass 0 level1 5 level2 1 tsec 201.899 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.16 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=256, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.724365









setting smoothness cost coefficient to 0.615
#GCAMreg# pass 0 level1 4 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.62 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=64, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.721435
```

```
#GCAMreg# pass 0 level1 4 level2 1 tsec 237.006 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.62 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=64, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500...
GCAMRegisterLevel(): init RMS 0.669072 setting smoothness cost
coefficient to 2.353

#GCAMreg# pass 0 level1 3 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=2.35 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=16, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.697448

#GCAMreg# pass 0 level1 3 level2 1 tsec 35.433 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=2.35 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=16, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500...
GCAMRegisterLevel(): init RMS 0.697448 setting smoothness cost
coefficient to 8.000

#GCAMreg# pass 0 level1 2 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=8.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=4, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.782596




#GCAMreg# pass 0 level1 2 level2 1 tsec 49.641 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=8.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=4, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500...
GCAMRegisterLevel(): init RMS 0.75644 setting smoothness cost
coefficient to 20.000

#GCAMreg# pass 0 level1 1 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=20.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=1, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.827687









#GCAMreg# pass 0 level1 1 level2 1 tsec 110.995 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=20.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=1, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.801423




resetting metric properties... setting smoothness
cost coefficient to 40.000

#GCAMreg# pass 0 level1 0 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=40.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=0, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.770383



#GCAMreg# pass 0 level1 0 level2 1 tsec 31.369 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=40.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=0, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.76383



GCAMregister done in 15.5271 min
Starting GCAmapRenormalizeWithAlignment() without scales
renormalizing by structure alignment.... renormalizing input #0
gca peak = 0.10253 (16) mri peak = 0.10360 (22)
Left_Lateral_Ventricle (4): linear fit = 0.94 x + 0.0 (1778 voxels, overlap=0.758)
Left_Lateral_Ventricle (4): linear fit = 0.94 x + 0.0 (1778 voxels, peak = 15), gca=15.1 gca peak =
0.17690 (16) mri peak = 0.09468 (20)
Right_Lateral_Ventricle (43): linear fit = 1.10 x + 0.0 (1171 voxels, overlap=0.935)
Right_Lateral_Ventricle (43): linear fit = 1.10 x + 0.0 (1171 voxels, peak = 18), gca=17.5 gca peak =
0.28275 (96) mri peak = 0.07299 (95)
Right_Pallidum (52): linear fit = 1.00 x + 0.0 (421 voxels, overlap=0.930) Right_Pallidum
(52): linear fit = 1.00 x + 0.0 (421 voxels, peak = 96), gca=95.5 gca peak = 0.18948 (93) mri
peak = 0.06907 (98)
Left_Pallidum (13): linear fit = 1.04 x + 0.0 (358 voxels, overlap=0.815) Left_Pallidum
(13): linear fit = 1.04 x + 0.0 (358 voxels, peak = 97), gca=97.2 gca peak = 0.20755 (55)
mri peak = 0.09333 (60)
Right_Hippocampus (53): linear fit = 1.10 x + 0.0 (595 voxels, overlap=0.947) Right_Hippocampus
(53): linear fit = 1.10 x + 0.0 (595 voxels, peak = 60), gca=60.2 gca peak = 0.31831 (58) mri
peak = 0.09702 (63)
Left_Hippocampus (17): linear fit = 1.10 x + 0.0 (404 voxels, overlap=0.978) Left_Hippocampus
(17): linear fit = 1.10 x + 0.0 (404 voxels, peak = 64), gca=63.5 gca peak = 0.11957 (102) mri
peak = 0.06633 (105)
Right_Cerebral_White_Matter (41): linear fit = 1.02 x + 0.0 (51728 voxels, overlap=0.874)
Right_Cerebral_White_Matter (41): linear fit = 1.02 x + 0.0 (51728 voxels, peak = 105), gca=104.5 gca peak =
0.11429 (102) mri peak = 0.07017 (106)
Left_Cerebral_White_Matter (2): linear fit = 1.03 x + 0.0 (48641 voxels, overlap=0.785)
Left_Cerebral_White_Matter (2): linear fit = 1.03 x + 0.0 (48641 voxels, peak = 106), gca=105.6 gca peak =
0.14521 (59) mri peak = 0.04347 (67)
Left_Cerebral_Cortex (3): linear fit = 1.12 x + 0.0 (10848 voxels, overlap=0.647)
Left_Cerebral_Cortex (3): linear fit = 1.12 x + 0.0 (10848 voxels, peak = 66), gca=66.4 gca peak =
0.14336 (58) mri peak = 0.04601 (68)
Right_Cerebral_Cortex (42): linear fit = 1.12 x + 0.0 (11753 voxels, overlap=0.788)
Right_Cerebral_Cortex (42): linear fit = 1.12 x + 0.0 (11753 voxels, peak = 65), gca=64.7 gca peak =
0.13305 (70) mri peak = 0.08155 (75)
Right_Caudate (50): linear fit = 1.13 x + 0.0 (306 voxels, overlap=0.326) Right_Caudate
(50): linear fit = 1.13 x + 0.0 (306 voxels, peak = 79), gca=79.4 gca peak = 0.15761 (71)
mri peak = 0.09940 (77)
Left_Caudate (11): linear fit = 1.03 x + 0.0 (741 voxels, overlap=0.757)
Left_Caudate (11): linear fit = 1.03 x + 0.0 (741 voxels, peak = 73), gca=73.5 gca peak =
0.13537 (57) mri peak = 0.04117 (62)
Left_Cerebellum_Cortex (8): linear fit = 1.12 x + 0.0 (8306 voxels, overlap=0.567)
Left_Cerebellum_Cortex (8): linear fit = 1.12 x + 0.0 (8306 voxels, peak = 64), gca=63.6 gca peak =
0.13487 (56) mri peak = 0.04419 (62)
Right_Cerebellum_Cortex (47): linear fit = 1.12 x + 0.0 (13306 voxels, overlap=0.681)
Right_Cerebellum_Cortex (47): linear fit = 1.12 x + 0.0 (13306 voxels, peak = 62), gca=62.4 gca peak =
0.19040 (84) mri peak = 0.05927 (87)
Left_Cerebellum_White_Matter (7): linear fit = 1.04 x + 0.0 (5269 voxels, overlap=0.853)
Left_Cerebellum_White_Matter (7): linear fit = 1.04 x + 0.0 (5269 voxels, peak = 88), gca=87.8 gca peak =
0.18871 (83) mri peak = 0.06093 (85)
Right_Cerebellum_White_Matter (46): linear fit = 1.01 x + 0.0 (4678 voxels, overlap=0.974)
Right_Cerebellum_White_Matter (46): linear fit = 1.01 x + 0.0 (4678 voxels, peak = 84), gca=84.2 gca peak =
0.24248 (57) mri peak = 0.09119 (63)
Left_Amygdala (18): linear fit = 1.12 x + 0.0 (322 voxels, overlap=0.857) Left_Amygdala
(18): linear fit = 1.12 x + 0.0 (322 voxels, peak = 64), gca=63.6 gca peak = 0.35833 (56)
mri peak = 0.13333 (65)
Right_Amygdala (54): linear fit = 1.13 x + 0.0 (426 voxels, overlap=0.804) Right_Amygdala
(54): linear fit = 1.13 x + 0.0 (426 voxels, peak = 64), gca=63.6 gca peak = 0.12897 (85) mri
peak = 0.07234 (87)
Left_Thalamus (10): linear fit = 0.99 x + 0.0 (3858 voxels, overlap=0.960) Left_Thalamus
(10): linear fit = 0.99 x + 0.0 (3858 voxels, peak = 84), gca=83.7 gca peak = 0.13127 (83)
mri peak = 0.07920 (84)
Right_Thalamus (49): linear fit = 1.02 x + 0.0 (3136 voxels, overlap=0.917) Right_Thalamus
(49): linear fit = 1.02 x + 0.0 (3136 voxels, peak = 85), gca=85.1 gca peak = 0.12974 (78) mri
peak = 0.07657 (76)
Left_Putamen (12): linear fit = 0.96 x + 0.0 (1218 voxels, overlap=0.880) Left_Putamen
(12): linear fit = 0.96 x + 0.0 (1218 voxels, peak = 75), gca=75.3 gca peak = 0.17796 (79)
mri peak = 0.08777 (72)
Right_Putamen (51): linear fit = 0.94 x + 0.0 (1335 voxels, overlap=0.697) Right_Putamen
(51): linear fit = 0.94 x + 0.0 (1335 voxels, peak = 75), gca=74.7 gca peak = 0.10999 (80)
mri peak = 0.11260 (81)
Brain_Stem (16): linear fit = 1.07 x + 0.0 (7764 voxels, overlap=0.415) Brain_Stem (16):
linear fit = 1.07 x + 0.0 (7764 voxels, peak = 85), gca=85.2 gca peak = 0.13215 (88) mri
peak = 0.09605 (85)
Right_VentralDC (60): linear fit = 1.09 x + 0.0 (691 voxels, overlap=0.675) Right_VentralDC
(60): linear fit = 1.09 x + 0.0 (691 voxels, peak = 95), gca=95.5 gca peak = 0.11941 (89) mri
peak = 0.11756 (93)
Left_VentralDC (28): linear fit = 1.03 x + 0.0 (763 voxels, overlap=0.672) Left_VentralDC
(28): linear fit = 1.03 x + 0.0 (763 voxels, peak = 92), gca=92.1 gca peak = 0.20775 (25) mri
peak = 0.18611 (23) gca peak = 0.13297 (21) mri peak = 0.13953 (22)
Fourth_Ventricle (15): linear fit = 0.96 x + 0.0 (282 voxels, overlap=0.705) Fourth_Ventricle
(15): linear fit = 0.96 x + 0.0 (282 voxels, peak = 20), gca=20.3 gca peak Unknown = 0.94777 (
0) gca peak Left_Inf_Lat_Vent = 0.19087 (28) gca peak Third_Ventricle = 0.20775 (25) gca peak
CSF = 0.16821 (33) gca peak Left_Accumbens_area = 0.32850 (63) gca peak Left_undetermined =
0.98480 (28) gca peak Left_vessel = 0.40887 (53) gca peak Left_choroid_plexus = 0.10898 (46)
gca peak Right_Inf_Lat_Vent = 0.17798 (26) gca peak Right_Accumbens_area = 0.30137 (64) gca
peak Right_vessel = 0.47828 (52) gca peak Right_choroid_plexus = 0.11612 (45) gca peak
Fifth_Ventricle = 0.59466 (35) gca peak WM_hypointensities = 0.10053 (78) gca peak
non_WM_hypointensities = 0.07253 (60) gca peak Optic_Chiasm = 0.25330 (73) not using caudate to
estimate GM means estimating mean gm scale to be 1.11 x + 0.0 estimating mean wm scale to be
1.03 x + 0.0 estimating mean csf scale to be 1.00 x + 0.0 saving intensity scales to
talairach.label_intensities.txt GCAmapRenormalizeWithAlignment() took 2.94573 min noneg pre
Starting GCAMregister() label assignment complete, 0 changed (0.00%) npasses = 1, nlevels = 6
#pass# 1 of 1 ********************** enabling zero nodes setting smoothness cost coefficient
to 0.008

#GCAMreg# pass 0 level1 5 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.01 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=256, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.782606
#GCAMreg# pass 0 level1 5 level2 1 tsec 615.511 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.01 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, l1_dist=10.00, avgs=256, sigma=0.5,type=2, relabel=0, neg=no
```

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.654517

setting smoothness cost coefficient to 0.031

#GCAMreg# pass 0 level1 4 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.03 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=64, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.651656

#GCAMreg# pass 0 level1 4 level2 1 tsec 473.089 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.03 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=64, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500...
GCAMRegisterLevel(): init RMS 0.580172
setting smoothness cost coefficient to 0.118

#GCAMreg# pass 0 level1 3 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.12 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=16, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.560191

#GCAMreg# pass 0 level1 3 level2 1 tsec 364.474 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.12 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=16, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.510689

```
setting smoothness cost coefficient to 0.400

#GCAMreg# pass 0 level1 2 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.40 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=4, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.52682



#GCAMreg# pass 0 level1 2 level2 1 tsec 27.053 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.40 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=4, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.52682


setting smoothness cost coefficient to 1.000

#GCAMreg# pass 0 level1 1 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=1.00 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=1, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.577001



#GCAMreg# pass 0 level1 1 level2 1 tsec 25.745 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=1.00 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=1, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.575856



resetting metric properties... setting smoothness
cost coefficient to 2.000

#GCAMreg# pass 0 level1 0 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=2.00 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=0, sigma=2.0,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.503334
#GCAMreg# pass 0 level1 0 level2 1 tsec 155.347 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=2.00 tol=5.00e-02, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=0, sigma=0.5,type=2, relabel=0, neg=no

blurring input image with Gaussian with sigma=0.500...
GCAMRegisterLevel(): init RMS 0.477352




GCAMregister done in 39.345 min
******************** ALLOWING NEGATIVE NODES IN DEFORMATION****************************** noneg post
Starting GCAMregister() label assignment complete, 0 changed (0.00%) npasses = 1, nlevels = 6 #pass# 1 of
1 ********************** enabling zero nodes setting smoothness cost coefficient to 0.008

#GCAMreg# pass 0 level1 5 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.01 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=256, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.469411


#GCAMreg# pass 0 level1 5 level2 1 tsec 31.068 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.01 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=256, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.469411




setting smoothness cost coefficient to 0.031

#GCAMreg# pass 0 level1 4 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.03 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=64, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.468611



#GCAMreg# pass 0 level1 4 level2 1 tsec 29.771 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.03 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=64, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.468511



iter 0, gcam->neg = 1 after 1 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 1 after 1 iterations, nbhd
size=0, neg = 0



setting smoothness cost coefficient to 0.118

#GCAMreg# pass 0 level1 3 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.12 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=16, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.464116 iter 0, gcam->neg = 4
after 1 iterations, nbhd size=0, neg = 0

iter 0, gcam->neg = 4 after 0 iterations, nbhd
size=0, neg = 0


iter 0, gcam->neg = 1 after 0 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 5 after 2 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 6 after 2 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 4 after 2 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 7 after 10 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 11 after 1 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 12 after 11 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 8 after 2 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 3 after 4 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 9 after 12 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 5 after 8 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 9 after 3 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 5 after 1 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 4 after 9 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 5 after 13 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 4 after 3 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 4 after 2 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 10 after 5 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 4 after 1 iterations, nbhd
size=0, neg = 0


iter 0, gcam->neg = 1 after 1 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 1 after 1 iterations, nbhd
size=0, neg = 0


#GCAMreg# pass 0 level1 3 level2 1 tsec 160.031 sigma 0.5 l_jacobian=1.00
l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.12
tol=2.50e-01, dt=5.00e-02, exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=16, sigma=0.5,type=2, relabel=0, neg=yes blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS 0.449441


iter 0, gcam->neg = 1 after 3 iterations, nbhd
size=0, neg = 0



iter 0, gcam->neg = 2 after 2 iterations, nbhd
size=0, neg = 0
```

```
iter 0, gcam->neg = 2 after 0 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 1 after 0 iterations, nbhd
size=0, neg = 0




setting smoothness cost coefficient to 0.400

#GCAMreg# pass 0 level1 2 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.40 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=4, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.444862



#GCAMreg# pass 0 level1 2 level2 1 tsec 28.921 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=0.40 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=4, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.444825



setting smoothness cost coefficient to 1.000

#GCAMreg# pass 0 level1 1 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=1.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=1, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.453005



#GCAMreg# pass 0 level1 1 level2 1 tsec 26.87 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=1.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=1, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.452555



resetting metric properties... setting smoothness
cost coefficient to 2.000

#GCAMreg# pass 0 level1 0 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=2.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=0, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.444703 iter 0, gcam->neg = 1031
after 17 iterations, nbhd size=1, neg = 0



#GCAMreg# pass 0 level1 0 level2 1 tsec 30.861 sigma 0.5 l_jacobian=1.00 l_label=1.00 l_log_likelihood=0.20 l_smoothness=2.00 tol=2.50e-01, dt=5.00e-02,
exp_k=20.0, momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=0, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.410623


label assignment complete, 0 changed (0.00%)
GCAMregister done in 9.86657 min
Starting GCAMcomputeMaxPriorLabels()
Morphing with label term set to 0 ****************************** Starting
GCAMregister() label assignment complete, 0 changed (0.00%) npasses = 1,
nlevels = 6 @pass# 1 of 1 ************************ enabling zero nodes
setting smoothness cost coefficient to 0.008

#GCAMreg# pass 0 level1 5 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.01 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=256, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.394355

#GCAMreg# pass 0 level1 5 level2 1 tsec 14.958 sigma 0.5 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.01 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=256, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.394355



setting smoothness cost coefficient to 0.031

#GCAMreg# pass 0 level1 4 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.03 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=64, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.394533

#GCAMreg# pass 0 level1 4 level2 1 tsec 14.658 sigma 0.5 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.03 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=64, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.394533



setting smoothness cost coefficient to 0.118

#GCAMreg# pass 0 level1 3 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.12 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=16, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.394847



#GCAMreg# pass 0 level1 3 level2 1 tsec 27.119 sigma 0.5 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.12 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=16, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500...
GCAMRegisterLevel(): init RMS 0.394735 iter 0, gcam->neg = 2
after 7 iterations, nbhd size=1, neg = 0

iter 0, gcam->neg = 1 after 0 iterations, nbhd
size=0, neg = 0


iter 0, gcam->neg = 1 after 0 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 1 after 6 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 4 after 10 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 1 after 0 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 6 after 4 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 9 after 9 iterations, nbhd
size=1, neg = 0



iter 0, gcam->neg = 1 after 1 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 1 after 4 iterations, nbhd
size=0, neg = 0

iter 0, gcam->neg = 1 after 0 iterations, nbhd
size=0, neg = 0 iter 0, gcam->neg = 2
after 2 iterations, nbhd size=0, neg = 0 setting
smoothness cost coefficient to 0.400

#GCAMreg# pass 0 level1 2 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.40 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=4, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.39164



#GCAMreg# pass 0 level1 2 level2 1 tsec 24.715 sigma 0.5 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=0.40 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=4, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.39164

iter 0, gcam->neg = 1 after 6 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 90 after 15 iterations, nbhd
size=1, neg = 0

iter 0, gcam->neg = 35
after 15 iterations, nbhd size=1, neg = 0 setting
smoothness cost coefficient to 1.000

#GCAMreg# pass 0 level1 1 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=1.00 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=1, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000... GCAMRegisterLevel(): init RMS
0.395796


#GCAMreg# pass 0 level1 1 level2 1 tsec 24.3 sigma 0.5 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=1.00 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, lbl_dist=10.00, avgs=1, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500...
GCAMRegisterLevel(): init RMS 0.395796 resetting metric
properties... setting smoothness cost coefficient to 2.000
```

```
#GCAMreg# pass 0 level1 0 level2 0 tsec 0 sigma 2 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=2.00 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, ibi_dist=10.00, avgs=0, sigma=2.0,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=2.000...
GCAMRegisterLevel(): init RMS 0.386321 iter 0, gcam->neg = 712
after 15 iterations, nbhd size=1, neg = 0



#GCAMreg# pass 0 level1 0 level2 1 tsec 31.198 sigma 0.5 l_jacobian=1.00 l_log_likelihood=0.20 l_smoothness=2.00 tol=2.50e-01, dt=5.00e-02, exp_k=20.0,
momentum=0.90, levels=6, niter=500, ibi_dist=10.00, avgs=0, sigma=0.5,type=2, relabel=0, neg=yes

blurring input image with Gaussian with sigma=0.500... GCAMRegisterLevel(): init RMS
0.376388



GCAMregister done in 6.45443 min writing output transformation to
transforms/talairach.m3z...
GCAMwrite
Calls to gcamLogLikelihoodEnergy 4747 tmin = 5.96992
Calls to gcamLabelEnergy         4195 tmin = 0.84375
Calls to gcamJacobianEnergy      4747 tmin = 4.18532
Calls to gcamSmoothnessEnergy    4747 tmin = 13.4619
Calls to gcamLogLikelihoodTerm 645 tmin = 1.92822
Calls to gcamLabelTerm           599 tmin = 4.17965
Calls to gcamJacobianTerm        645 tmin = 4.26662
Calls to gcamSmoothnessTerm      645 tmin = 1.79748
Calls to gcamComputeGradient     645 tmin = 31.5844 Calls to
gcamComputeMetricProperties     6685 tmin = 7.69883 mri_ca_register
took 1 hours, 14 minutes and 20 seconds. #VMPC# mri_ca_register
VmPeak  2100844
FSRUNTIME@ mri_ca_register  1.2390 hours 2 threads
@#@FSTIME  2024:04:13:10:08:51 mri_ca_register N 9 e 4460.29 S 2.72 U 7736.92 P 173% M 1328348 F 13 R 1034398 W 0 c 9697 w 16934 I 2192 O 63088 L 2.55 3.15 2.17
@#@FSLOADPOST 2024:04:13:11:23:12 mri_ca_register N 9 3.33 3.35 3.37
#--------------------------------------@## SubCort Seg Sat Apr 13 11:23:12 UTC 2024  mri_ca_label -relabel_unlikely 9 .3 -prior 0.5 -align norm.mgz transforms/talairach.m3z

/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca aseg.auto_noCCseg.mgz

sysname  Linux
hostname vm4--jb--3d--mri--pre-processing machine
x86_64

setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed cd /home/jaibhatoa/mri_processed/014_S_4401/mri mri_ca_label -relabel_unlikely 9 .3 -prior 0.5 -align norm.mgz transforms/talairach.m3z
/usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca aseg.auto_noCCseg.mgz

relabeling unlikely voxels with window_size = 9 and prior threshold 0.30 using Gibbs
prior factor = 0.500 renormalizing sequences with structure alignment, equivalent
to:
       -renormalize
       -renormalize_mean 0.500
       -regularize 0.500

== Number of threads available to for OpenMP = 2 == reading 1 input
volumes
reading classifier array from /usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca reading input
volume from norm.mgz average std[0] = 7.2
reading transform from transforms/talairach.m3z
setting orig areas to linear transform determinant scaled 6.54
Atlas used for the 3D morph was /usr/local/freesurfer/7.4.1/average/RB_all_2020-01-02.gca average std =
7.2   using min determinant for regularization = 5.2 0 singular and 0 ill-conditioned covariance
matrices regularized labeling volume... renormalizing by structure alignment....
renormalizing input #0 gca
peak = 0.15521 (20) mri peak =
0.11006 (22)
Left_Lateral_Ventricle (4): linear fit = 0.94 x + 0.0 (3944 voxels, overlap=0.791)
Left_Lateral_Ventricle (4): linear fit = 0.94 x + 0.0 (3944 voxels, peak = 19), gca=18.7 gca peak =
0.20380 (13) mri peak = 0.09673 (21)
Right_Lateral_Ventricle (43): linear fit = 1.27 x + 0.0 (3639 voxels, overlap=0.759)
Right_Lateral_Ventricle (43): linear fit = 1.27 x + 0.0 (3639 voxels, peak = 17), gca=16.6 gca peak =
0.26283 (96) mri peak = 0.08712 (90)
Right_Pallidum (52): linear fit = 0.93 x + 0.0 (274 voxels, overlap=1.017) Right_Pallidum
(52): linear fit = 0.93 x + 0.0 (274 voxels, peak = 89), gca=88.8 gca peak = 0.15814 (97) mri
peak = 0.08333 (101)
Left_Pallidum (13): linear fit = 1.04 x + 0.0 (239 voxels, overlap=0.891) Left_Pallidum (13):
linear fit = 1.04 x + 0.0 (239 voxels, peak = 101), gca=101.4 gca peak = 0.27624 (56) mri peak
= 0.08645 (61)
Right_Hippocampus (53): linear fit = 1.08 x + 0.0 (680 voxels, overlap=0.971) Right_Hippocampus
(53): linear fit = 1.08 x + 0.0 (680 voxels, peak = 60), gca=60.2 gca peak = 0.28723 (59) mri
peak = 0.09797 (64)
Left_Hippocampus (17): linear fit = 1.12 x + 0.0 (625 voxels, overlap=1.013) Left_Hippocampus
(17): linear fit = 1.12 x + 0.0 (625 voxels, peak = 66), gca=65.8 gca peak = 0.07623 (103) mri
peak = 0.07392 (105)
Right_Cerebral_White_Matter (41): linear fit = 1.02 x + 0.0 (34843 voxels, overlap=0.801)
Right_Cerebral_White_Matter (41): linear fit = 1.02 x + 0.0 (34843 voxels, peak = 106), gca=105.6 gca peak =
0.07837 (105) mri peak = 0.08021 (106)
Left_Cerebral_White_Matter (2): linear fit = 1.03 x + 0.0 (36157 voxels, overlap=0.711)
Left_Cerebral_White_Matter (2): linear fit = 1.03 x + 0.0 (36157 voxels, peak = 109), gca=108.7 gca peak =
0.10165 (58) mri peak = 0.05113 (63)
Left_Cerebral_Cortex (3): linear fit = 1.13 x + 0.0 (12849 voxels, overlap=0.803)
Left_Cerebral_Cortex (3): linear fit = 1.13 x + 0.0 (12849 voxels, peak = 66), gca=65.8 gca peak =
0.11113 (58) mri peak = 0.04824 (68)
Right_Cerebral_Cortex (42): linear fit = 1.10 x + 0.0 (14114 voxels, overlap=0.812)
Right_Cerebral_Cortex (42): linear fit = 1.10 x + 0.0 (14114 voxels, peak = 64), gca=63.5 gca peak =
0.27796 (67) mri peak = 0.09853 (79)
Right_Caudate (50): linear fit = 1.14 x + 0.0 (954 voxels, overlap=0.200) Right_Caudate
(50): linear fit = 1.14 x + 0.0 (954 voxels, peak = 77), gca=76.7 gca peak = 0.14473 (69)
mri peak = 0.10319 (79)
Left_Caudate (11): linear fit = 1.05 x + 0.0 (937 voxels, overlap=0.887) Left_Caudate
(11): linear fit = 1.05 x + 0.0 (937 voxels, peak = 73), gca=72.8 gca peak = 0.14301 (56)
mri peak = 0.06097 (62)
Left_Cerebellum_Cortex (8): linear fit = 1.13 x + 0.0 (8955 voxels, overlap=0.641)
Left_Cerebellum_Cortex (8): linear fit = 1.13 x + 0.0 (8955 voxels, peak = 64), gca=63.6 gca peak =
0.14610 (55) mri peak = 0.06319 (65)
Right_Cerebellum_Cortex (47): linear fit = 1.13 x + 0.0 (11560 voxels, overlap=0.839)
Right_Cerebellum_Cortex (47): linear fit = 1.13 x + 0.0 (11560 voxels, peak = 62), gca=62.4 gca peak =
0.16309 (85) mri peak = 0.08690 (87)
Left_Cerebellum_White_Matter (7): linear fit = 1.03 x + 0.0 (3303 voxels, overlap=0.915)
Left_Cerebellum_White_Matter (7): linear fit = 1.03 x + 0.0 (3303 voxels, peak = 88), gca=88.0 gca peak =
0.15172 (84) mri peak = 0.08599 (85)
Right_Cerebellum_White_Matter (46): linear fit = 1.01 x + 0.0 (3367 voxels, overlap=0.972)
Right_Cerebellum_White_Matter (46): linear fit = 1.01 x + 0.0 (3367 voxels, peak = 85), gca=85.3 gca peak =
0.30461 (58) mri peak = 0.11366 (63)
Left_Amygdala (18): linear fit = 1.10 x + 0.0 (411 voxels, overlap=0.799)
Left_Amygdala (18): linear fit = 1.10 x + 0.0 (411 voxels, peak = 64), gca=63.5
gca peak = 0.32293 (57) mri
peak = 0.10881 (65)
Right_Amygdala (54): linear fit = 1.10 x + 0.0 (383 voxels, overlap=0.625) Right_Amygdala
(54): linear fit = 1.10 x + 0.0 (383 voxels, peak = 62), gca=62.4 gca peak = 0.11083 (90) mri
peak = 0.08190 (84)
Left_Thalamus (10): linear fit = 0.98 x + 0.0 (3146 voxels, overlap=0.971) Left_Thalamus
(10): linear fit = 0.98 x + 0.0 (3146 voxels, peak = 88), gca=87.8 gca peak = 0.11393 (83)
mri peak = 0.08031 (84)
Right_Thalamus (49): linear fit = 1.00 x + 0.0 (3353 voxels, overlap=0.979) Right_Thalamus
(49): linear fit = 1.00 x + 0.0 (3353 voxels, peak = 83), gca=82.6 gca peak = 0.08575 (81) mri
peak = 0.09110 (76)
Left_Putamen (12): linear fit = 0.93 x + 0.0 (981 voxels, overlap=0.702) Left_Putamen
(12): linear fit = 0.93 x + 0.0 (981 voxels, peak = 75), gca=74.9 gca peak = 0.08618 (78)
mri peak = 0.09340 (71)
Right_Putamen (51): linear fit = 0.94 x + 0.0 (923 voxels, overlap=0.606) Right_Putamen
(51): linear fit = 0.94 x + 0.0 (923 voxels, peak = 73), gca=72.9 gca peak = 0.08005 (78)
mri peak = 0.10571 (81)
Brain_Stem (16): linear fit = 1.05 x + 0.0 (8919 voxels, overlap=0.491) Brain_Stem (16):
linear fit = 1.05 x + 0.0 (8919 voxels, peak = 82), gca=82.3 gca peak = 0.12854 (88) mri
peak = 0.07567 (95)
Right_VentralDC (60): linear fit = 1.07 x + 0.0 (723 voxels, overlap=0.804) Right_VentralDC
(60): linear fit = 1.07 x + 0.0 (723 voxels, peak = 94), gca=93.7 gca peak = 0.15703 (87) mri
peak = 0.08866 (93)
Left_VentralDC (28): linear fit = 1.08 x + 0.0 (751 voxels, overlap=0.896) Left_VentralDC
(28): linear fit = 1.08 x + 0.0 (751 voxels, peak = 94), gca=93.5 gca peak = 0.17522 (25) mri
peak = 0.11640 (20)
Third_Ventricle (14): linear fit = 0.88 x + 0.0 (92 voxels, overlap=1.000) Third_Ventricle
(14): linear fit = 0.88 x + 0.0 (92 voxels, peak = 22), gca=22.1 gca peak = 0.17113 (14) mri
peak = 0.14412 (18)
Fourth_Ventricle (15): linear fit = 1.25 x + 0.0 (291 voxels, overlap=0.817) Fourth_Ventricle
(15): linear fit = 1.25 x + 0.0 (291 voxels, peak = 17), gca=17.4 gca peak Unknown = 0.94777 (
0) gca peak Left_Inf_Lat_Vent = 0.16627 (28) gca peak CSF = 0.20346 (36) gca peak
Left_Accumbens_area = 0.70646 (62) gca peak Left_undetermined = 1.00000 (28) gca peak
Left_vessel = 0.89917 (53) gca peak Left_choroid_plexus = 0.11689 (35) gca peak
Right_Inf_Lat_Vent = 0.25504 (23) gca peak Right_Accumbens_area = 0.31650 (65) gca peak
Right_vessel = 0.77268 (52) gca peak Right_choroid_plexus = 0.13275 (38) gca peak
Fifth_Ventricle = 0.60973 (33) gca peak WM_hypointensities = 0.11013 (77) gca peak
non_WM_hypointensities = 0.11354 (41) gca peak Optic_Chiasm = 0.51646 (76) not using caudate to
estimate GM means estimating mean gm scale to be 1.10 x + 0.0 estimating mean wm scale to be
1.03 x + 0.0 estimating mean csf scale to be 1.09 x + 0.0 saving intensity scales to
aseg.auto_noCCseg.label_intensities.txt renormalizing by structure alignment.... renormalizing
input #0 gca peak = 0.17692 (19) mri peak = 0.11006 (22)
Left_Lateral_Ventricle (4): linear fit = 1.02 x + 0.0 (3944 voxels, overlap=0.882)
Left_Lateral_Ventricle (4): linear fit = 1.02 x + 0.0 (3944 voxels, peak = 19), gca=19.5 gca peak =
0.16231 (16) mri peak = 0.09673 (21)
Right_Lateral_Ventricle (43): linear fit = 0.94 x + 0.0 (3639 voxels, overlap=0.722)
Right_Lateral_Ventricle (43): linear fit = 0.94 x + 0.0 (3639 voxels, peak = 15), gca=15.0 gca peak =
0.28555 (88) mri peak = 0.08712 (90)
Right_Pallidum (52): linear fit = 1.01 x + 0.0 (274 voxels, overlap=1.012) Right_Pallidum
(52): linear fit = 1.01 x + 0.0 (274 voxels, peak = 89), gca=89.3 gca peak = 0.15424 (100)
mri peak = 0.08333 (101)
Left_Pallidum (13): linear fit = 1.00 x + 0.0 (239 voxels, overlap=1.008) Left_Pallidum (13):
linear fit = 1.00 x + 0.0 (239 voxels, peak = 100), gca=100.0 gca peak = 0.24797 (60) mri peak
= 0.08645 (61)
Right_Hippocampus (53): linear fit = 1.02 x + 0.0 (680 voxels, overlap=1.005) Right_Hippocampus
(53): linear fit = 1.02 x + 0.0 (680 voxels, peak = 62), gca=61.5 gca peak = 0.33122 (63) mri
peak = 0.09797 (64)
Left_Hippocampus (17): linear fit = 1.00 x + 0.0 (625 voxels, overlap=1.009) Left_Hippocampus
(17): linear fit = 1.00 x + 0.0 (625 voxels, peak = 63), gca=63.0 gca peak = 0.07763 (106) mri
peak = 0.07392 (105)
Right_Cerebral_White_Matter (41): linear fit = 1.00 x + 0.0 (34843 voxels, overlap=0.872)
Right_Cerebral_White_Matter (41): linear fit = 1.00 x + 0.0 (34843 voxels, peak = 105), gca=105.5 gca peak =
0.07610 (108) mri peak = 0.08021 (106)
Left_Cerebral_White_Matter (2): linear fit = 1.00 x + 0.0 (36157 voxels, overlap=0.838)
Left_Cerebral_White_Matter (2): linear fit = 1.00 x + 0.0 (36157 voxels, peak = 107), gca=107.5 gca peak =
0.08813 (66) mri peak = 0.05113 (63)
Left_Cerebral_Cortex (3): linear fit = 0.99 x + 0.0 (12849 voxels, overlap=0.988)
Left_Cerebral_Cortex (3): linear fit = 0.99 x + 0.0 (12849 voxels, peak = 65), gca=65.0 gca peak =
0.10314 (64) mri peak = 0.04824 (68)
Right_Cerebral_Cortex (42): linear fit = 1.02 x + 0.0 (14114 voxels, overlap=0.969)
Right_Cerebral_Cortex (42): linear fit = 1.02 x + 0.0 (14114 voxels, peak = 66), gca=65.6 gca peak =
0.22049 (76) mri peak = 0.09853 (79)
Right_Caudate (50): linear fit = 1.00 x + 0.0 (954 voxels, overlap=1.006) Right_Caudate
(50): linear fit = 1.00 x + 0.0 (954 voxels, peak = 76), gca=76.0 gca peak = 0.14919 (82)
mri peak = 0.10319 (79)
Left_Caudate (11): linear fit = 1.00 x + 0.0 (937 voxels, overlap=0.843) Left_Caudate
(11): linear fit = 1.00 x + 0.0 (937 voxels, peak = 82), gca=82.0 gca peak = 0.12143 (64)
mri peak = 0.06097 (62)
Left_Cerebellum_Cortex (8): linear fit = 1.00 x + 0.0 (8955 voxels, overlap=0.989)
Left_Cerebellum_Cortex (8): linear fit = 1.00 x + 0.0 (8955 voxels, peak = 64), gca=64.0 gca peak =
0.14086 (63) mri peak = 0.06319 (65)
Right_Cerebellum_Cortex (47): linear fit = 0.99 x + 0.0 (11560 voxels, overlap=0.990)
Right_Cerebellum_Cortex (47): linear fit = 0.99 x + 0.0 (11560 voxels, peak = 62), gca=62.1 gca peak =
0.16129 (88) mri peak = 0.08690 (87)
```

```
Left_Cerebellum_White_Matter (7): linear fit = 1.00 x + 0.0 (3303 voxels, overlap=0.977)
Left_Cerebellum_White_Matter (7): linear fit = 1.00 x + 0.0 (3303 voxels, peak = 88), gca=87.6 gca peak =
0.15849 (85) mri peak = 0.08599 (85)
Right_Cerebellum_White_Matter (46): linear fit = 1.00 x + 0.0 (3367 voxels, overlap=0.987)
Right_Cerebellum_White_Matter (46): linear fit = 1.00 x + 0.0 (3367 voxels, peak = 85), gca=84.6 gca peak =
0.23633 (63) mri peak = 0.11366 (63)
Left_Amygdala (18): linear fit = 1.00 x + 0.0 (411 voxels, overlap=1.020) Left_Amygdala
(18): linear fit = 1.00 x + 0.0 (411 voxels, peak = 63), gca=63.0 gca peak = 0.32501 (63)
mri peak = 0.10881 (65)
Right_Amygdala (54): linear fit = 1.07 x + 0.0 (383 voxels, overlap=1.018) Right_Amygdala
(54): linear fit = 1.07 x + 0.0 (383 voxels, peak = 67), gca=67.1 gca peak = 0.10812 (88) mri
peak = 0.08190 (84)
Left_Thalamus (10): linear fit = 1.00 x + 0.0 (3146 voxels, overlap=0.993) Left_Thalamus
(10): linear fit = 1.00 x + 0.0 (3146 voxels, peak = 88), gca=87.6 gca peak = 0.10371 (80)
mri peak = 0.08031 (84)
Right_Thalamus (49): linear fit = 1.01 x + 0.0 (3353 voxels, overlap=0.972) Right_Thalamus
(49): linear fit = 1.01 x + 0.0 (3353 voxels, peak = 81), gca=81.2 gca peak = 0.08513 (75) mri
peak = 0.09110 (76)
Left_Putamen (12): linear fit = 1.03 x + 0.0 (981 voxels, overlap=0.908) Left_Putamen
(12): linear fit = 1.03 x + 0.0 (981 voxels, peak = 78), gca=77.6 gca peak = 0.08371 (75)
mri peak = 0.09340 (71)
Right_Putamen (51): linear fit = 1.00 x + 0.0 (923 voxels, overlap=0.955) Right_Putamen
(51): linear fit = 1.00 x + 0.0 (923 voxels, peak = 75), gca=75.0 gca peak = 0.08436 (83)
mri peak = 0.10571 (81)
Brain_Stem (16): linear fit = 1.00 x + 0.0 (8919 voxels, overlap=0.723) Brain_Stem (16):
linear fit = 1.00 x + 0.0 (8919 voxels, peak = 83), gca=82.6 gca peak = 0.12327 (95) mri
peak = 0.07567 (95)
Right_VentralDC (60): linear fit = 0.99 x + 0.0 (723 voxels, overlap=0.880) Right_VentralDC
(60): linear fit = 0.99 x + 0.0 (723 voxels, peak = 94), gca=93.6 gca peak = 0.13103 (92) mri
peak = 0.08866 (93)
Left_VentralDC (28): linear fit = 0.99 x + 0.0 (751 voxels, overlap=0.974) Left_VentralDC
(28): linear fit = 0.99 x + 0.0 (751 voxels, peak = 91), gca=90.6 gca peak = 0.18883 (22) mri
peak = 0.11640 (20)
Third_Ventricle (14): linear fit = 1.02 x + 0.0 (92 voxels, overlap=1.009) Third_Ventricle
(14): linear fit = 1.02 x + 0.0 (92 voxels, peak = 23), gca=22.5 gca peak = 0.15037 (18) mri
peak = 0.14412 (18)
Fourth_Ventricle (15): linear fit = 0.94 x + 0.0 (291 voxels, overlap=0.771) Fourth_Ventricle
(15): linear fit = 0.94 x + 0.0 (291 voxels, peak = 17), gca=16.8 gca peak Unknown = 0.94777 (
0) gca peak Left_Inf_Lat_Vent = 0.17762 (31) gca peak CSF = 0.20346 (39) gca peak
Left_Accumbens_area = 0.50930 (66) gca peak Left_undetermined = 1.00000 (28) gca peak
Left_vessel = 0.89917 (53) gca peak Left_choroid_plexus = 0.11541 (35) gca peak
Right_Inf_Lat_Vent = 0.28815 (25) gca peak Right_Accumbens_area = 0.29407 (74) gca peak
Right_vessel = 0.77268 (52) gca peak Right_choroid_plexus = 0.13275 (38) gca peak
Fifth_Ventricle = 0.91620 (35) gca peak WM_hypointensities = 0.10087 (79) gca peak
non_WM_hypointensities = 0.14635 (42) gca peak Optic_Chiasm = 0.51674 (76)
not using caudate to estimate GM means estimating mean
gm scale to be 1.02 x + 0.0 estimating mean wm scale to
be 1.00 x + 0.0 estimating mean csf scale to be 0.98 x +
0.0
saving intensity scales to aseg.auto_noCCseg.label_intensities.txt
saving sequentially combined intensity scales to aseg.auto_noCCseg.label_intensities.txt
63904 voxels changed in iteration 0 of unlikely voxel relabeling
144 voxels changed in iteration 1 of unlikely voxel relabeling
7 voxels changed in iteration 2 of unlikely voxel relabeling
0 voxels changed in iteration 3 of unlikely voxel relabeling
40168 gm and wm labels changed (%28 to gray, %72 to white out of all changed labels)
337 hippocampal voxels changed.
0 amygdala voxels changed. Reclassifying using Gibbs
Priors pass 1: 65615 changed. image ll: -2.090, PF=0.500
pass 2: 15339 changed. image ll: -2.090, PF=0.500 pass 3:
3785 changed.
37353 voxels changed in iteration 0 of unlikely voxel relabeling
257 voxels changed in iteration 1 of unlikely voxel relabeling
21 voxels changed in iteration 2 of unlikely voxel relabeling
0 voxels changed in iteration 3 of unlikely voxel relabeling
6453 voxels changed in iteration 0 of unlikely voxel relabeling
62 voxels changed in iteration 1 of unlikely voxel relabeling
1 voxels changed in iteration 2 of unlikely voxel relabeling
0 voxels changed in iteration 3 of unlikely voxel relabeling
5230 voxels changed in iteration 0 of unlikely voxel relabeling
22 voxels changed in iteration 1 of unlikely voxel relabeling
0 voxels changed in iteration 2 of unlikely voxel relabeling
4202 voxels changed in iteration 0 of unlikely voxel relabeling
17 voxels changed in iteration 1 of unlikely voxel relabeling
3 voxels changed in iteration 2 of unlikely voxel relabeling
0 voxels changed in iteration 3 of unlikely voxel relabeling
 !!!!!!!!! ventricle segment 1 with volume 12608 above threshold 100 - not erasing !!!!!!!!!!
 !!!!!!!!! ventricle segment 0 with volume 179 above threshold 100 - not erasing !!!!!!!!!!
 !!!!!!!!! ventricle segment 0 with volume 101 above threshold 100 - not erasing !!!!!!!!!!
 !!!!!!!!! ventricle segment 4 with volume 12113 above threshold 100 - not erasing !!!!!!!!!!
 !!!!!!!!! ventricle segment 1 with volume 578 above threshold 100 - not erasing !!!!!!!!!! writing
labeled volume to aseg.auto_noCCseg.mgz mri_ca_label utimesec 1657.741130 mri_ca_label stimesec
2.535995 mri_ca_label ru_maxrss 2106036 mri_ca_label ru_ixrss 0 mri_ca_label ru_idrss 0
mri_ca_label ru_isrss 0 mri_ca_label ru_minflt 1500732 mri_ca_label ru_majflt 13 mri_ca_label
ru_nswap 0 mri_ca_label ru_inblock 1992 mri_ca_label ru_oublock 696 mri_ca_label ru_msgsnd 0
mri_ca_label ru_msgrcv 0 mri_ca_label ru_nsignals 0 mri_ca_label ru_nvcsw 129 mri_ca_label ru_nivcsw
1378 mri_ca_label took 27 minutes and 10 seconds.
mri_ca_label done
@#@FSTIME  2024:04:13:11:23:12 mri_ca_label N 10 e 1630.27 S 2.65 U 1657.74 P 101% M 2106036 F 13 R 1500736 W 0 c 1378 w 130 I 1992 O 696 L 3.33 3.35 3.37
@#@FSLOADPOST 2024:04:13:11:50:22 mri_ca_label N 10 2.01 2.03 2.25
#---------------------------------------@#@ CC Seg Sat Apr 13 11:50:22 UTC 2024  mri_cc -aseg aseg.auto_noCCseg.mgz -o aseg.auto.mgz -lta
/home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/cc_up.lta 014_S_4401

will read input aseg from aseg.auto_noCCseg.mgz writing aseg
with cc labels to aseg.auto.mgz
will write lta as /home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/cc_up.lta reading aseg
from /home/jaibhatoa/mri_processed/014_S_4401/mri/aseg.auto_noCCseg.mgz reading norm from
/home/jaibhatoa/mri_processed/014_S_4401/mri/norm.mgz 36288 voxels in left wm, 30482 in right wm,
xrange [123, 131] searching rotation angles z=[-6  8], y=[-6  8]
searching scale 1 2 rot 7.6  global minimum found at slice 126.4, rotations (1.47, 0.87) final
transformation (x=126.4, yr=1.467, zr=0.868):
 0.99956  -0.01515   0.02560   0.38279;
 0.01515   0.99989   0.00039   27.05489;  -0.02561   -0.00000
0.99967   23.27240;   0.00000   0.00000   0.00000   1.00000;
updating  x range to be [126, 130] in xformed coordinates best
xformed  slice  127  min_x_fornix  =  128  min_x_fornix  =  130
min_x_fornix  =  153  min_x_fornix  =  139  min_x_fornix  = 133 cc
center is found at 127 99 108 eigenvectors:
-0.00020   0.00327   0.99999;
-0.05001   -0.99874    0.00325;   0.99875   -0.05001    0.00036;  error  in mid  anterior  detected  -
correcting...  error  in  mid  anterior  detected  -  correcting...  writing  aseg  with  callosum  to
/home/jaibhatoa/mri_processed/014_S_4401/mri/aseg.auto.mgz...
corpus callosum segmentation took 0.4 minutes
#VMPC# mri_cc VmPeak  445000 mri_cc done
@#@FSTIME  2024:04:13:11:50:22 mri_cc N 7 e 21.99 S 0.37 U 21.82 P 100% M 344892 F 7 R 277433 W 0 c 38 w 14 I 1304 O 680 L 2.01 2.03 2.25
@#@FSLOADPOST 2024:04:13:11:50:44 mri_cc N 7 2.01 2.03 2.25
#---------------------------------------@#@ Merge
ASeg Sat Apr 13 11:50:44 UTC 2024  cp
aseg.auto.mgz aseg.presurf.mgz

#-----------------------------------------
@#@ Intensity Normalization2 Sat Apr 13 11:50:44 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri
mri_normalize -seed 1234 -mprage -aseg aseg.presurf.mgz -mask brainmask.mgz norm.mgz brain.mgz

setting seed for random number genererator to 1234 assuming input
volume is MGH (Van der Kouwe) MP-RAGE using segmentation for
initial intensity normalization using MR volume brainmask.mgz to
mask input volume...
reading mri_src from norm.mgz... Reading aseg
aseg.presurf.mgz aseg read with width 256 (src
width 256)
************** resampling aseg to account for mismatch with source image ********************** normalizing image...
NOT doing gentle normalization with control points/label
processing with aseg removing outliers in the aseg WM...
822 control points removed Building bias image
building Voronoi diagram... performing soap bubble
smoothing, sigma = 0...
Smoothing with sigma 8 Applying bias correction
building Voronoi diagram... performing soap bubble
smoothing, sigma = 8...

Iterating 2 times
---------------------------------3d normalization pass
1 of 2 white matter peak found at 110 white matter
peak found at 108 gm peak at 71 (71), valley at 35
(35) csf peak at 17, setting threshold to 53 building
Voronoi diagram... performing soap bubble smoothing,
sigma = 8...
---------------------------------3d normalization pass 2
of 2 white matter peak found at 110 white matter peak
found at 110 gm peak at 70 (70), valley at 39 (39) csf
peak at 21, setting threshold to 53 building Voronoi
diagram... performing soap bubble smoothing, sigma =
8... Done iterating
-----------------------------------writing output to
brain.mgz
3D bias adjustment took 1 minutes and 58 seconds.
@#@FSTIME  2024:04:13:11:50:44 mri_normalize N 9 e 120.43 S 1.31 U 130.78 P 109% M 1202180 F 0 R 665575 W 0 c 148 w 11 I 0 O 2584 L 2.01 2.03 2.25
@#@FSLOADPOST 2024:04:13:11:52:44 mri_normalize N 9 2.08 2.03 2.22
#-----------------------------------------------------
@#@ Mask BFS Sat Apr 13 11:52:44 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/mri  mri_mask -T 5 brain.mgz
brainmask.mgz brain.finalsurfs.mgz

threshold mask volume at 5
DoAbs = 0
Found 1478051 voxels in mask (pct=  8.81) maskval=0,
outval=0
Writing masked volume to brain.finalsurfs.mgz...done.
@#@FSTIME  2024:04:13:11:52:44 mri_mask N 5 e 0.79 S 0.04 U 0.88 P 115% M 74240 F 6 R 17253 W 0 c 3 w 10 I 1024 O 2568 L 2.08 2.03 2.22
@#@FSLOADPOST 2024:04:13:11:52:45 mri_mask N 5 2.08 2.03 2.22 cp
brain.finalsurfs.mgz brain.finalsurfs.manedit.mgz
#-----------------------------------------------------
@#@ WM Segmentation Sat Apr 13 11:52:45 UTC 2024

 AntsDenoiseImageFs -i brain.mgz -o antsdn.brain.mgz

@#@FSTIME  2024:04:13:11:52:45 AntsDenoiseImageFs N 4 e 36.52 S 0.15 U 36.40 P 100% M 350976 F 23 R 86480 W 0 c 39 w 24 I 4664 O 2568 L 2.08 2.03 2.22
@#@FSLOADPOST 2024:04:13:11:53:22 AntsDenoiseImageFs N 4 2.08 2.04 2.21  mri_segment -wsizemm

13 -mprage antsdn.brain.mgz wm.seg.mgz

wsizemm = 13, voxres = 1, wsize = 13 Widening wm
low from 89 to 79
assuming input volume is MGH (Van der Kouwe) MP-RAGE wm mean:
110 wsize:   13 wm low:   79 wm hi:   125 gray low: 30 gray
hi:  99
Doing initial trinary intensity segmentation
MRIntensitySegmentation() wm_low=79, wm_hi=125, gray_hi=99
white = 316163, nonwhite = 16172229, ambig = 288824, nmask = 0
Using local statistics to label ambiguous voxels
Autodetecting stats
Computing class statistics for intensity windows...
CCS WM (101.0): 100.7 +- 6.2 [79.0 --> 125.0] CCS GM
(73.0) : 72.4 +- 9.8 [30.0 --> 95.0]  white_mean
100.743  white_sigma 6.18972  gray_mean 72.3573
gray_sigma 9.7892
```

```
setting bottom of white matter range wm_low to 82.1 setting
top of gray matter range gray_hi to 91.9  wm_low 82.1465
wm_hi  125  gray_low 30  gray_hi  91.9357
Redoing initial intensity segmentation...
MRIintensitySegmentation() wm_low=82.1465, wm_hi=125, gray_hi=91.9357 white = 424082,
nonwhite = 16234055, ambig = 119079, nmask = 0
Recomputing local statistics to label ambiguous voxels...
 wm_low  82.1465   wm_hi   125  gray_low 30  gray_hi  91.9357 using local geometry to
label remaining ambiguous voxels... polvwsize = 5, polvlen = 3, gray_hi = 91.9357,
wm_low  =  82.1465   MRIcpolvMedianCurveSegment():  wsize=5,  len=3,  gmhi=91.9357,
wmlow=82.1465
    101056 voxels processed (0.60%)
     46488 voxels white (0.28%)
     54568 voxels non-white (0.33%)

Reclassifying voxels using Gaussian border classifier niter=1
MRIreclassify(): wm_low=77.1465, gray_hi=91.9357, wsize=13
    198245 voxels tested (1.18%)
     44246 voxels changed (0.26%)
     37468 multi-scale searches  (0.22%)
Recovering bright white
MRIrecoverBrightWhite()  wm_low
82.1465  wm_hi 125  slack 6.18972
pct_thresh 0.33  intensity_thresh
131.19  nvox_thresh 8.58      106
voxels tested (0.00%)       64 voxels
changed (0.00%)

removing voxels with positive offset direction...
MRIremoveWrongDirection() wsize=3, lowthr=77.1465, hithr=91.9357   smoothing input
volume with sigma = 0.250
    83575 voxels tested (0.50%)     14938
voxels changed (0.09%) thicken = 1
removing 1-dimensional structures...
MRIremoveIdStructures(): max_iter=10000, thresh=2, WM_MIN_VAL=5  3388
sparsely connected voxels removed in 1 iterations thickening thin
strands....
thickness 4 nsegments
20 wm_hi 125
2566 diagonally connected voxels added...
MRIthickenThinWMStrands(): thickness=4, nsegments=20
  20 segments, 4761 filled
MRIfindBrightNonWM(): 405 bright non-wm voxels segmented.
MRIfilterMorphology() WM_MIN_VAL=5, DIAGONAL_FILL=230 white matter
segmentation took 0.8 minutes writing output to wm.seg.mgz...
@#@FSTIME  2024:04:13:11:53:22 mri_segment N 5 e 50.83 S 0.39 U 50.69 P 100% M 143896 F 6 R 287325 W 0 c 112 w 9 I 1040 O 880 L 2.08 2.04 2.21
@#@FSLOADPOST 2024:04:13:11:54:13 mri_segment N 5 2.04 2.03 2.20  mri_edit_wm_with_aseg -keep-in

wm.seg.mgz brain.mgz aseg.presurf.mgz wm.asegedit.mgz

mri_edit_wm_with_aseg -keep-in wm.seg.mgz brain.mgz aseg.presurf.mgz wm.asegedit.mgz preserving editing
changes in input volume...
auto filling took 0.36 minutes reading wm
segmentation from wm.seg.mgz...
0 voxels added to wm to prevent paths from MTL structures to cortex
3437 additional wm voxels added
0 additional wm voxels added
SEG EDIT: 67533 voxels turned on, 24488 voxels turned off.
propagating editing to output volume from wm.seg.mgz writing edited
volume to wm.asegedit.mgz....
@#@FSTIME  2024:04:13:11:54:13 mri_edit_wm_with_aseg N 5 e 21.36 S 0.41 U 21.40 P 102% M 463696 F 4 R 315042 W 0 c 43 w 19 I 928 O 832 L 2.04 2.03 2.20
@#@FSLOADPOST 2024:04:13:11:54:34 mri_edit_wm_with_aseg N 5 2.02 2.03 2.19  mri_pretess

wm.asegedit.mgz wm norm.mgz wm.mgz


Iteration Number : 1
pass   1 (xy+):  23 found -  23 modified     |    TOTAL:  23 pass   2
(xy+):   0 found -   23 modified     |    TOTAL:  23 pass   1 (xy-):
15 found -  15 modified     |    TOTAL:  38 pass   2 (xy-):   0 found
-  15 modified     |    TOTAL:  38
pass   1 (yz+):  26 found -  26 modified     |    TOTAL:  64 pass   2
(yz+):   0 found -   26 modified     |    TOTAL:  64 pass   1 (yz-):
21 found -  21 modified     |    TOTAL:  85 pass   2 (yz-):   0 found
-   21 modified     |    TOTAL:  85 pass   1 (xz+):  25 found -  25
modified     |    TOTAL: 110 pass   2 (xz+):   0 found -  25 modified
|    TOTAL: 110 pass   1 (xz-):  20 found -  20 modified     |
TOTAL: 130 pass   2 (xz-):   0 found -  20 modified     |    TOTAL:
130 Iteration Number : 1
pass   1 (+++):  15 found -  15 modified     |    TOTAL:  15 pass   2
(+++):   0 found -   15 modified     |    TOTAL:  15 pass   1 (++):
24 found -  24 modified     |    TOTAL:  39 pass   2 (+++):   0 found
-   24 modified     |    TOTAL:  39 pass   1 (+++):  26 found -  26
modified     |    TOTAL:  65 pass   2 (+++):   0 found -  26 modified
|    TOTAL:  65 pass   1 (+++):  10 found -  10 modified     |
TOTAL:  75 pass   2 (+++):   0 found -  10 modified     |    TOTAL:
75 Iteration Number : 1
pass   1 (++): 129 found - 129 modified     |    TOTAL: 129 pass   2
(++):   0 found - 129 modified     |    TOTAL: 129 pass   1 (++):  97
found -  97 modified     |    TOTAL: 226 pass   2 (++):   0 found -
97 modified     |    TOTAL: 226 pass   1 (--): 124 found - 124
modified     |    TOTAL: 350 pass   2 (--):   0 found - 124 modified
|    TOTAL: 350 pass   1 (--): 111 found - 111 modified     |
TOTAL: 461 pass   2 (--):   0 found - 111 modified     |    TOTAL:
461 Iteration Number : 2
pass   1 (xy+):   8 found -   8 modified     |    TOTAL:   8 pass   2
(xy+):   0 found -   8 modified     |    TOTAL:   8 pass   1 (xy-):
8 found -   8 modified     |    TOTAL:  16 pass   2 (xy-):   0 found -
8 modified     |    TOTAL:  16 pass   1 (yz+):   7 found -   7
modified     |    TOTAL:  23 pass   2 (yz+):   0 found -   7 modified
|    TOTAL:  23 pass   1 (yz-):   7 found -   7 modified     |
TOTAL:  30 pass   2 (yz-):   0 found -   7 modified     |    TOTAL:
30 pass   1 (xz+):   6 found -   6 modified     |    TOTAL:  36 pass
2 (xz+):   0 found -   6 modified     |    TOTAL:  36
pass   1 (xz-):   7 found -   7 modified     |    TOTAL:  43 pass   2
(xz-):   0 found -   7 modified     |    TOTAL:  43 Iteration Number :
2
pass   1 (+++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+++):   0 found -   0 modified     |    TOTAL:   0 pass   1 (+++):
2 found -   2 modified     |    TOTAL:   2 pass   2 (+++):   0 found -
2 modified     |    TOTAL:   2 pass   1 (++):   4 found -   4
modified     |    TOTAL:   6 pass   2 (+++):   0 found -   4 modified
|    TOTAL:   6 Iteration Number : 2
pass   1 (++):   7 found -   7 modified     |    TOTAL:   7 pass   2
(++):   0 found -   7 modified     |    TOTAL:   7 pass   1 (+-):   5
found -   5 modified     |    TOTAL:  12 pass   2 (+-):   0 found -
5 modified     |    TOTAL:  12 pass   1 (--):   2 found -   2
modified     |    TOTAL:  14 pass   2 (--):   0 found -   2 modified
|    TOTAL:  14 pass   1 (--):   2 found -   2 modified     |
TOTAL:  16 pass   2 (--):   0 found -   2 modified     |    TOTAL:
16 Iteration Number : 3
pass   1 (xy+):   3 found -   3 modified     |    TOTAL:   3 pass   2
(xy+):   0 found -   3 modified     |    TOTAL:   3 pass   1 (xy-):
3 found -   3 modified     |    TOTAL:   6 pass   2 (xy-):   0 found -
3 modified     |    TOTAL:   6 pass   1 (yz+):   1 found -   1
modified     |    TOTAL:   7 pass   2 (yz+):   0 found -   1 modified
|    TOTAL:   7 pass   1 (yz-):   0 found -   0 modified     |
TOTAL:   7 pass   1 (xz+):   0 found -   0 modified     |    TOTAL:
7 pass   1 (xz-):   4 found -   4 modified     |    TOTAL:  11 pass
2 (xz-):   0 found -   4 modified     |    TOTAL:  11 Iteration Number
: 3
pass   1 (+++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+++):   0 found -   0 modified     |    TOTAL:   0 pass   1 (+++):
0 found -   0 modified     |    TOTAL:   0 pass   1 (+++):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 3
pass   1 (++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(++):   1 found -   1 modified     |    TOTAL:   1 pass   2 (++):   0
found -    1 modified     |    TOTAL:   1 pass   1 (--):   0 found -
0 modified     |    TOTAL:   1 pass   1 (-+):   2 found -   2
modified     |    TOTAL:   3 pass   2 (-+):   0 found -   2 modified
|    TOTAL:   3 Iteration Number : 4
pass   1 (xy+):   0 found -   0 modified     |    TOTAL:   0 pass   1
(xy-):   1 found -   1 modified     |    TOTAL:   1 pass   2 (xy-):
0 found -   1 modified     |    TOTAL:   1 pass   1 (yz+):   0 found -
0 modified     |    TOTAL:   1 pass   1 (yz-):   0 found -   0
modified     |    TOTAL:   1 pass   1 (xz+):   0 found -   0 modified
|    TOTAL:   1 pass   1 (xz-):   0 found -   0 modified     |
TOTAL:   1 Iteration Number : 4
pass   1 (++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(++):   0 found -   0 modified     |    TOTAL:   0 pass   1 (++):   0
found -   0 modified     |    TOTAL:   0 pass   1 (++):   0 found -   0
modified     |    TOTAL:   0
Iteration Number : 4
pass   1 (++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+-):   0 found -   0 modified     |    TOTAL:   0 pass   1 (--):   0
found -    0 modified     |    TOTAL:   0 pass   1 (-+):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 5
pass   1 (xy+):   0 found -   0 modified     |    TOTAL:   0 pass   1
(xy-):   0 found -   0 modified     |    TOTAL:   0 pass   1 (yz+):
0 found -   0 modified     |    TOTAL:   0 pass   1 (yz-):   0 found -
0 modified     |    TOTAL:   0 pass   1 (xz+):   0 found -   0
modified     |    TOTAL:   0 pass   1 (xz-):   0 found -   0 modified
|    TOTAL:   0 Iteration Number : 5
pass   1 (+++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+++):   0 found -   0 modified     |    TOTAL:   0 pass   1 (++):
0 found -   0 modified     |    TOTAL:   0 pass   1 (++):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 5
pass   1 (++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+-):   0 found -   0 modified     |    TOTAL:   0 pass   1 (--):   0
found -   0 modified     |    TOTAL:   0 pass   1 (-+):   0 found -   0
modified     |    TOTAL:   0

Total Number of Modified Voxels = 746 (out of 525579: 0.141939)
binarizing input wm segmentation... Ambiguous edge configurations...

mri_pretess done

@#@FSTIME  2024:04:13:11:54:34 mri_pretess N 4 e 3.37 S 0.02 U 3.44 P 102% M 56960 F 20 R 12932 W 0 c 11 w 20 I 3872 O 840 L 2.02 2.03 2.19
@#@FSLOADPOST 2024:04:13:11:54:37 mri_pretess N 4 2.02 2.03 2.19
#---------------------------------------------@#@ Fill Sat Apr 13 11:54:37 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri  mri_fill -a ../scripts/ponscc.cut.log -xform transforms/talairach.lta
-segmentation aseg.presurf.mgz -ctab /usr/local/freesurfer/7.4.1/SubCorticalMassLUT.txt wm.mgz filled.mgz

logging cutting plane coordinates to ../scripts/ponscc.cut.log... INFO: Using
transforms/talairach.lta and its offset for Talairach volume ...
using segmentation aseg.presurf.mgz...
done.
searching for cutting planes...voxel to talairach voxel transform
   1.08089    -0.02208     0.04139   -13.10222;
0.01657     1.09441     0.16802    -22.54128;
-0.04140    -0.17868     1.00406     19.87343;
0.00000   0.00000   0.00000   1.00000;
reading input volume... wm.mgzvoxel to talairach voxel transform
   1.08089    -0.02208     0.04139   -13.10222;
0.01657     1.09441     0.16802    -22.54128;
-0.04140    -0.17868     1.00406     19.87343;
0.00000    0.00000    0.00000   1.00000; reading
segmented  volume  aseg.presurf.mgz  removing  CC
from  segmentation Looking for area (min, max) =
(350, 1400)
```

```
area[0] = 1508 (min = 350, max = 1400), aspect = 0.44 (min = 0.10, max = 0.75) need search
nearby
using  seed  (125,  121,  154),  TAL  =  (3.0,  26.0,  7.0)
talairach  voxel  to  voxel  transform   0.92344    0.01208
-0.04009       13.16821;  -0.01930      0.88918    -0.14800
22.73165;
 0.03465   0.15873   0.96797  -15.20493;  0.00000
0.00000   0.00000   1.00000;
segmentation indicates cc at (125,  121,  154) --> (3.0, 26.0, 7.0) done.
filling took 0.8 minutes
talairach cc position changed to (3.00, 26.00, 7.00)
Erasing brainstem...done.
seed_search_size = 9, min_neighbors = 5
search rh wm seed point around talairach space:(21.00, 26.00, 7.00) SRC: (107.26, 105.46, 156.78) search lh wm seed
point around talairach space (-15.00, 26.00, 7.00), SRC: (140.51, 104.77, 158.02) compute mri_fill using aseg
Erasing Brain Stem and Cerebellum ...
Define left and right masks using aseg:
Building Voronoi diagram ...
Using the Voronoi diagram for separating WM into two hemispheres ...
Find the largest connected component for each hemisphere ... Embedding
colortable mri_fill done, writing output to filled.mgz...
@#@FSTIME  2024:04:13:11:54:37 mri_fill N 10 e 49.68 S 1.22 U 48.60 P 100% M 956488 F 7 R 505351 W 0 c 103 w 8 I 1144 O 248 L 2.02 2.03 2.19
@#@FSLOADPOST 2024:04:13:11:55:27 mri_fill N 10 2.01 2.02 2.18  cp
filled.mgz filled.auto.mgz
#--------------------------------------
### Tessellate lh Sat Apr 13 11:55:27 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mri_pretess ../mri/filled.mgz 255

../mri/norm.mgz ../mri/filled-pretess255.mgz


Iteration Number : 1
pass   1 (xy+):   1 found -   1 modified     |    TOTAL:   1 pass   2
(xy+):    0  found  -    1 modified     |    TOTAL:   1 pass   1 (xy-):
1 found -   1 modified     |    TOTAL:   2 pass   2 (xy-):   0 found -
1 modified     |    TOTAL:   2 pass   1 (yz+):   8 found -   8
modified      |    TOTAL:  10 pass   2 (yz+):   0 found -   8 modified
|      TOTAL:  10 pass   1 (yz-):   6 found -   6 modified     |
TOTAL:   16 pass   2 (yz-):   0 found -   6 modified     |    TOTAL:
16 pass   1 (xz+):   1 found -   1 modified     |    TOTAL:  17 pass
2 (xz+):    0 found -   1 modified     |    TOTAL:  17 pass   1 (xz-):
0 found -   0 modified     |    TOTAL:  17 Iteration Number : 1
pass   1 (+++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+++):    0 found -    0 modified     |    TOTAL:   0 pass   1 (++):
0 found -   0 modified     |    TOTAL:   0 pass   1 (++):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 1
pass   1 (++):   1 found -   1 modified     |    TOTAL:   1 pass   2
(++):   0 found -   1 modified     |    TOTAL:   1 pass   1 (+-):   1
found -    1 modified     |    TOTAL:   2 pass   2 (+-):   0 found -
1 modified     |    TOTAL:   2 pass   1 (--):   1 found -   1
modified      |    TOTAL:   3 pass   2 (--):   0 found -   1 modified
|      TOTAL:   3 pass   1 (-+):   0 found -    0 modified     |
TOTAL:   3 Iteration Number : 2
pass   1 (xy+):   0 found -   0 modified     |    TOTAL:   0 pass   1
(xy-):    0 found -    0 modified     |    TOTAL:   0 pass   1 (yz+):
0 found -   0 modified     |    TOTAL:   0 pass   1 (yz-):   0 found -
0 modified     |    TOTAL:   0 pass   1 (xz+):   0 found -   0
modified      |    TOTAL:   0 pass   1 (xz-):   0 found -   0 modified
|    TOTAL:   0 Iteration Number : 2
pass   1 (+++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+++):    0 found -    0 modified     |    TOTAL:   0 pass   1 (++):
0 found -   0 modified     |    TOTAL:   0 pass   1 (++):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 2
pass   1 (++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+-):   0 found -   0 modified     |    TOTAL:   0 pass   1 (--):   0
found -   0 modified     |    TOTAL:   0 pass   1 (-+):   0 found -   0
modified     |    TOTAL:   0

Total Number of Modified Voxels = 20 (out of 257977: 0.007753) Ambiguous edge
configurations...

mri_pretess done

@#@FSTIME  2024:04:13:11:55:27 mri_pretess N 4 e 1.27 S 0.03 U 1.35 P 109% M 40576 F 0 R 8807 W 0 c 6 w 3 I 0 O 240 L 2.01 2.02 2.18
@#@FSLOADPOST 2024:04:13:11:55:28 mri_pretess N 4 2.01 2.02 2.18

 mri_tessellate ../mri/filled-pretess255.mgz 255 ../surf/lh.orig.nofix

7.4.1   7.4.1 slice 40: 646 vertices, 723 faces slice 50: 5513
vertices, 5728 faces slice 60: 12804 vertices, 13066 faces slice
70: 21521 vertices, 21844 faces slice 80: 30641 vertices, 30952
faces slice 90: 40343 vertices, 40652 faces slice 100: 50268
vertices, 50618 faces slice 110: 61717 vertices, 62095 faces
slice 120: 72512 vertices, 72881 faces slice 130: 82920 vertices,
83269 faces slice 140: 92831 vertices, 93147 faces slice 150:
101000 vertices, 101265 faces slice 160: 107845 vertices, 108085
faces slice 170: 114196 vertices, 114386 faces slice 180: 119454
vertices, 119644 faces slice 190: 123768 vertices, 123884 faces
slice 200: 124696 vertices, 124702 faces slice 210: 124696
vertices, 124702 faces slice 220: 124696 vertices, 124702 faces
slice 230: 124696 vertices, 124702 faces slice 240: 124696
vertices, 124702 faces slice 250: 124696 vertices, 124702 faces
using the conformed surface RAS to save vertex points... writing
../surf/lh.orig.nofix using vox2ras matrix:
-1.00000   0.00000   0.00000   128.00000;
 0.00000   0.00000   1.00000  -128.00000;
 0.00000  -1.00000   0.00000   128.00000;
 0.00000   0.00000   0.00000   1.00000;
@#@FSTIME  2024:04:13:11:55:28 mri_tessellate N 3 e 1.00 S 0.01 U 1.05 P 105% M 36480 F 6 R 8124 W 0 c 4 w 6 I 1000 O 5848 L 2.01 2.02 2.18
@#@FSLOADPOST 2024:04:13:11:55:29 mri_tessellate N 3 2.01 2.02 2.18  rm -f

../mri/filled-pretess255.mgz


 mris_extract_main_component ../surf/lh.orig.nofix ../surf/lh.orig.nofix


counting number of connected components...
   124696 voxel in cpt #1: X=-6 [v=124696,e=374106,f=249404] located at (-25.126892, -17.235172, 24.296610)
For the whole surface: X=-6 [v=124696,e=374106,f=249404]
One single component has been found nothing to do
done

@#@FSTIME  2024:04:13:11:55:29 mris_extract_main_component N 2 e 0.56 S 0.14 U 0.48 P 111% M 248388 F 18 R 65593 W 0 c 3 w 22 I 3440 O 8776 L 2.01 2.02 2.18
@#@FSLOADPOST 2024:04:13:11:55:30 mris_extract_main_component N 2 2.01 2.02 2.18
#--------------------------------------
### Tessellate rh Sat Apr 13 11:55:30 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mri_pretess ../mri/filled.mgz 127

../mri/norm.mgz ../mri/filled-pretess127.mgz


Iteration Number : 1
pass   1 (xy+):   0 found -   0 modified     |    TOTAL:   0 pass   1
(xy-):    0 found  -    0 modified     |    TOTAL:   0 pass   1 (yz+):
10 found -  10 modified     |    TOTAL:  10 pass   2 (yz+):   0 found
-   10 modified     |    TOTAL:  10 pass   1 (yz-):   7 found -   7
modified      |    TOTAL:  17 pass   2 (yz-):   0 found -   7 modified
|      TOTAL:  17 pass   1 (xz+):    0 found  -    0 modified     |
TOTAL:   17 pass   1 (xz-):   0 found -   0 modified     |    TOTAL:
17 Iteration Number : 1
pass   1 (+++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+++):    0 found  -    0 modified     |    TOTAL:   0 pass   1 (++):
0 found -   0 modified     |    TOTAL:   0 pass   1 (++):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 1
pass   1 (++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+-):   0 found -   0 modified     |    TOTAL:   0 pass   1 (--):   0
found -    0 modified     |    TOTAL:   0 pass   1 (-+):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 2
pass   1 (xy+):   0 found -   0 modified     |    TOTAL:   0 pass   1
(xy-):    0 found  -    0 modified     |    TOTAL:   0 pass   1 (yz+):
0 found -   0 modified     |    TOTAL:   0 pass   1 (yz-):   0 found -
0 modified     |    TOTAL:   0 pass   1 (xz+):   0 found -   0
modified      |    TOTAL:   0 pass   1 (xz-):   0 found -   0 modified
|    TOTAL:   0 Iteration Number : 2
pass   1 (+++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+++):    0 found  -    0 modified     |    TOTAL:   0 pass   1 (++):
0 found -   0 modified     |    TOTAL:   0 pass   1 (++):   0 found -
0 modified     |    TOTAL:   0 Iteration Number : 2
pass   1 (++):   0 found -   0 modified     |    TOTAL:   0 pass   1
(+-):   0 found -   0 modified     |    TOTAL:   0 pass   1 (--):   0
found -   0 modified     |    TOTAL:   0 pass   1 (-+):   0 found -   0
modified     |    TOTAL:   0

Total Number of Modified Voxels = 17 (out of 255884: 0.006644) Ambiguous edge
configurations...

mri_pretess done

@#@FSTIME  2024:04:13:11:55:30 mri_pretess N 4 e 1.10 S 0.01 U 1.19 P 110% M 40448 F 0 R 8806 W 0 c 5 w 3 I 0 O 240 L 2.01 2.02 2.18
@#@FSLOADPOST 2024:04:13:11:55:31 mri_pretess N 4 2.01 2.02 2.18

 mri_tessellate ../mri/filled-pretess127.mgz 127 ../surf/rh.orig.nofix

7.4.1   7.4.1
slice 40: 940 vertices, 1031 faces slice 50: 5769 vertices, 6012
faces slice 60: 14204 vertices, 14495 faces slice 70: 23955
vertices, 24352 faces slice 80: 34388 vertices, 34743 faces slice
90: 44557 vertices, 44901 faces slice 100: 56076 vertices, 56464
faces slice 110: 66661 vertices, 67013 faces slice 120: 77174
vertices, 77508 faces slice 130: 86528 vertices, 86887 faces
slice 140: 95553 vertices, 95854 faces slice 150: 102656
vertices, 102909 faces slice 160: 108946 vertices, 109194 faces
slice 170: 114796 vertices, 115016 faces slice 180: 120058
vertices, 120244 faces slice 190: 123567 vertices, 123683 faces
slice 200: 124444 vertices, 124472 faces slice 210: 124444
vertices, 124472 faces slice 220: 124444 vertices, 124472 faces
slice 230: 124444 vertices, 124472 faces slice 240: 124444
vertices, 124472 faces slice 250: 124444 vertices, 124472 faces
using the conformed surface RAS to save vertex points... writing
../surf/rh.orig.nofix using vox2ras matrix:
-1.00000   0.00000   0.00000   128.00000;
 0.00000   0.00000   1.00000  -128.00000;
 0.00000  -1.00000   0.00000   128.00000;
 0.00000   0.00000   0.00000   1.00000;
@#@FSTIME  2024:04:13:11:55:31 mri_tessellate N 3 e 1.00 S 0.03 U 1.03 P 106% M 36608 F 0 R 8122 W 0 c 2 w 2 I 0 O 5840 L 2.01 2.02 2.18
@#@FSLOADPOST 2024:04:13:11:55:32 mri_tessellate N 3 2.01 2.02 2.18  rm -f

../mri/filled-pretess127.mgz


 mris_extract_main_component ../surf/rh.orig.nofix ../surf/rh.orig.nofix


counting number of connected components...
   124444 voxel in cpt #1: X=-28 [v=124444,e=373416,f=248944] located at (27.699318, -20.447222, 24.331997)
For the whole surface: X=-28 [v=124444,e=373416,f=248944]
One single component has been found
nothing to do done
```

```
@##FSTIME  2024:04:13:11:55:32 mris_extract_main_component N 2 e 0.60 S 0.12 U 0.55 P 112% M 247808 F 0 R 65509 W 0 c 3 w 6 I 0 O 8760 L 2.01 2.02 2.18
@##FSLOADPOST 2024:04:13:11:55:33 mris_extract_main_component N 2 2.01 2.02 2.18
#---------------------------------------------------------### Smooth1 lh Sat Apr 13 11:55:33 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_smooth -nw -seed 1234
../surf/lh.orig.nofix ../surf/lh.smoothwm.nofix

setting seed for random number generator to 1234 smoothing surface
tessellation for 10 iterations...
smoothing complete - recomputing first and second fundamental forms...
@##FSTIME  2024:04:13:11:55:33 mris_smooth N 5 e 2.11 S 0.13 U 2.16 P 108% M 198080 F 6 R 59334 W 0 c 8 w 10 I 600 O 8776 L 2.01 2.02 2.18
@##FSLOADPOST 2024:04:13:11:55:35 mris_smooth N 5 2.01 2.02 2.18
#---------------------------------------------------
### Smooth1 rh Sat Apr 13 11:55:35 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_smooth -nw -seed 1234
../surf/rh.orig.nofix ../surf/rh.smoothwm.nofix

setting seed for random number generator to 1234 smoothing surface tessellation
for 10 iterations... smoothing complete - recomputing first and second
fundamental forms...
@##FSTIME  2024:04:13:11:55:35 mris_smooth N 5 e 2.12 S 0.12 U 2.19 P 108% M 197804 F 0 R 59269 W 0 c 9 w 7 I 0 O 8760 L 2.01 2.02 2.18
@##FSLOADPOST 2024:04:13:11:55:37 mris_smooth N 5 2.09 2.04 2.18
#---------------------------------------------------
### Inflation1 lh Sat Apr 13 11:55:37 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_inflate -no-save-sulc
../surf/lh.smoothwm.nofix ../surf/lh.inflated.nofix

Not saving sulc
Reading ../surf/lh.smoothwm.nofix
avg radius = 46.0 mm, total surface area = 67093 mm^2
step 060: RMS=0.028 (target=0.015)   writing inflated surface to ../surf/lh.inflated.nofix inflation took 0.2
minutes

inflation   complete.  Not  saving  sulc
mris_inflate   utimesec         16.849741
mris_inflate   stimesec          0.144117
mris_inflate    ru_maxrss           197952
mris_inflate  ru_ixrss     0 mris_inflate
ru_idrss     0 mris_inflate ru_isrss     0
mris_inflate    ru_minflt           52787
mris_inflate  ru_majflt    22 mris_inflate
ru_nswap     0 mris_inflate ru_inblock
4016   mris_inflate   ru_oublock     8776
mris_inflate ru_msgsnd     0 mris_inflate
ru_msgrcv    0 mris_inflate ru_nsignals 0
mris_inflate    ru_nvcsw             247
mris_inflate ru_nivcsw   38
@##FSTIME  2024:04:13:11:55:37 mris_inflate N 3 e 10.69 S 0.15 U 16.84 P 159% M 198080 F 22 R 52792 W 0 c 38 w 248 I 4016 O 8776 L 2.09 2.04 2.18
@##FSLOADPOST 2024:04:13:11:55:48 mris_inflate N 3 2.23 2.07 2.19
#---------------------------------------------
### Inflation1 rh Sat Apr 13 11:55:48 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_inflate -no-save-sulc
../surf/rh.smoothwm.nofix ../surf/rh.inflated.nofix

Not saving sulc
Reading ../surf/rh.smoothwm.nofix
avg radius = 46.5 mm, total surface area = 67093 mm^2
step 060: RMS=0.032 (target=0.015)   writing inflated surface to ../surf/rh.inflated.nofix inflation took 0.2
minutes

inflation   complete.  Not  saving  sulc
mris_inflate   utimesec         16.892754
mris_inflate   stimesec          1.087533
mris_inflate    ru_maxrss           198092
mris_inflate  ru_ixrss     0 mris_inflate
ru_idrss     0 mris_inflate ru_isrss     0
mris_inflate    ru_minflt           520344
mris_inflate  ru_majflt    0 mris_inflate
ru_nswap     0 mris_inflate ru_inblock  0
mris_inflate    ru_oublock          8760
mris_inflate ru_msgsnd     0 mris_inflate
ru_msgrcv    0 mris_inflate ru_nsignals 0
mris_inflate    ru_nvcsw             227
mris_inflate ru_nivcsw   52
@##FSTIME  2024:04:13:11:55:48 mris_inflate N 3 e 11.53 S 1.09 U 16.89 P 155% M 198092 F 0 R 520349 W 0 c 52 w 228 I 0 O 8760 L 2.23 2.07 2.19 @##FSLOADPOST 2024:04:13:11:55:59
mris_inflate N 3 2.19 2.07 2.19
#---------------------------------------------------------### QSphere lh Sat Apr 13 11:55:59 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_sphere -q -p 6 -a 128 -seed 1234
../surf/lh.inflated.nofix ../surf/lh.qsphere.nofix

doing quick spherical unfolding. limitting
unfolding to 6 passes using n_averages =
128
setting seed for random number genererator to 1234 version:
7.4.1 available threads: 2 scaling brain by 0.323...
inflating... projecting onto sphere... surface projected - minimizing metric
distortion... vertex spacing 1.04 +- 0.56 (0.00-->6.77) (max @ vno 52067 -->
52071)
face area 0.03 +- 0.03 (-0.05-->0.74) Entering
MRISinflateToSphere() inflating to sphere (rms error <
2.00) 000: dt: 0.0000, rms radial error=176.708, avgs=0
005/300: dt: 0.9000, rms radial error=176.447, avgs=0
010/300: dt: 0.9000, rms radial error=175.888, avgs=0
015/300: dt: 0.9000, rms radial error=175.152, avgs=0
020/300: dt: 0.9000, rms radial error=174.314, avgs=0
025/300: dt: 0.9000, rms radial error=173.427, avgs=0
030/300: dt: 0.9000, rms radial error=172.507, avgs=0
035/300: dt: 0.9000, rms radial error=171.570, avgs=0
040/300: dt: 0.9000, rms radial error=170.626, avgs=0
045/300: dt: 0.9000, rms radial error=169.679, avgs=0
050/300: dt: 0.9000, rms radial error=168.732, avgs=0
055/300: dt: 0.9000, rms radial error=167.789, avgs=0
060/300: dt: 0.9000, rms radial error=166.849, avgs=0
065/300: dt: 0.9000, rms radial error=165.913, avgs=0
070/300: dt: 0.9000, rms radial error=164.982, avgs=0
075/300: dt: 0.9000, rms radial error=164.056, avgs=0
080/300: dt: 0.9000, rms radial error=163.135, avgs=0
085/300: dt: 0.9000, rms radial error=162.218, avgs=0
090/300: dt: 0.9000, rms radial error=161.307, avgs=0
095/300: dt: 0.9000, rms radial error=160.400, avgs=0
100/300: dt: 0.9000, rms radial error=159.499, avgs=0
105/300: dt: 0.9000, rms radial error=158.603, avgs=0
110/300: dt: 0.9000, rms radial error=157.711, avgs=0
115/300: dt: 0.9000, rms radial error=156.827, avgs=0
120/300: dt: 0.9000, rms radial error=155.947, avgs=0
125/300: dt: 0.9000, rms radial error=155.071, avgs=0
130/300: dt: 0.9000, rms radial error=154.201, avgs=0
135/300: dt: 0.9000, rms radial error=153.335, avgs=0
140/300: dt: 0.9000, rms radial error=152.474, avgs=0
145/300: dt: 0.9000, rms radial error=151.618, avgs=0
150/300: dt: 0.9000, rms radial error=150.767, avgs=0
155/300: dt: 0.9000, rms radial error=149.920, avgs=0
160/300: dt: 0.9000, rms radial error=149.078, avgs=0
165/300: dt: 0.9000, rms radial error=148.240, avgs=0
170/300: dt: 0.9000, rms radial error=147.407, avgs=0
175/300: dt: 0.9000, rms radial error=146.578, avgs=0
180/300: dt: 0.9000, rms radial error=145.754, avgs=0
185/300: dt: 0.9000, rms radial error=144.935, avgs=0
190/300: dt: 0.9000, rms radial error=144.120, avgs=0
195/300: dt: 0.9000, rms radial error=143.310, avgs=0
200/300: dt: 0.9000, rms radial error=142.504, avgs=0
205/300: dt: 0.9000, rms radial error=141.702, avgs=0
210/300: dt: 0.9000, rms radial error=140.905, avgs=0
215/300: dt: 0.9000, rms radial error=140.112, avgs=0
220/300: dt: 0.9000, rms radial error=139.324, avgs=0
225/300: dt: 0.9000, rms radial error=138.540, avgs=0
230/300: dt: 0.9000, rms radial error=137.761, avgs=0
235/300: dt: 0.9000, rms radial error=136.985, avgs=0
240/300: dt: 0.9000, rms radial error=136.214, avgs=0
245/300: dt: 0.9000, rms radial error=135.448, avgs=0
250/300: dt: 0.9000, rms radial error=134.685, avgs=0
255/300: dt: 0.9000, rms radial error=133.927, avgs=0
260/300: dt: 0.9000, rms radial error=133.173, avgs=0
265/300: dt: 0.9000, rms radial error=132.423, avgs=0
270/300: dt: 0.9000, rms radial error=131.678, avgs=0
275/300: dt: 0.9000, rms radial error=130.936, avgs=0
280/300: dt: 0.9000, rms radial error=130.199, avgs=0
285/300: dt: 0.9000, rms radial error=129.466, avgs=0
290/300: dt: 0.9000, rms radial error=128.737, avgs=0
295/300: dt: 0.9000, rms radial error=128.012, avgs=0 300/300: dt:
0.9000, rms radial error=127.291, avgs=0

spherical inflation complete.
epoch 1 (K=10.0), pass 1, starting sse = 14317.70 taking
momentum steps... taking momentum steps... taking
momentum steps... taking momentum steps...
pass 1 complete, delta sse/iter = 0.01/13 = 0.00041 epoch 2
(K=40.0), pass 1, starting sse = 2203.83 taking momentum
steps... taking momentum steps... taking momentum steps...
taking momentum steps... pass 1 complete, delta sse/iter =
0.00/13 = 0.00032 epoch 3 (K=160.0), pass 1, starting sse =
172.99 taking momentum steps... taking momentum steps...
taking momentum steps... taking momentum steps...
pass 1 complete, delta sse/iter = 0.19/20 = 0.00951 epoch 4
(K=640.0), pass 1, starting sse = 4.43 taking momentum
steps... taking momentum steps... taking momentum steps...
taking momentum steps...
pass 1 complete, delta sse/iter = 0.24/30 = 0.00786 final
distance error %100000.00 writing spherical brain to
../surf/lh.qsphere.nofix spherical transformation took
0.0208 hours FSRUNTIME@ mris_sphere  0.0208 hours 2 threads
#VMPC# mris_sphere VmPeak  522064 mris_sphere done
@##FSTIME  2024:04:13:11:55:59 mris_sphere N 9 e 74.95 S 7.90 U 117.32 P 167% M 202904 F 11 R 3686073 W 0 c 294 w 1569 I 1584 O 8776 L 2.19 2.07 2.19
@##FSLOADPOST 2024:04:13:11:57:14 mris_sphere N 9 2.58 2.20 2.22
#-----------------------------------------
### QSphere rh Sat Apr 13 11:57:14 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts
mris_sphere -q -p 6 -a 128 -seed 1234 ../surf/rh.inflated.nofix ../surf/rh.qsphere.nofix

doing quick spherical unfolding. limitting
unfolding to 6 passes using n_averages =
128
setting seed for random number genererator to 1234 version:
7.4.1 available threads: 2 scaling brain by 0.325...
inflating... projecting onto sphere... surface projected - minimizing metric
distortion... vertex spacing 1.04 +- 0.58 (0.00-->6.62) (max @ vno 89286 -->
89287)
face area 0.03 +- 0.03 (-0.20-->0.52) Entering
MRISinflateToSphere() inflating to sphere (rms error <
2.00) 000: dt: 0.0000, rms radial error=176.367, avgs=0
005/300: dt: 0.9000, rms radial error=176.108, avgs=0
010/300: dt: 0.9000, rms radial error=175.552, avgs=0
015/300: dt: 0.9000, rms radial error=174.820, avgs=0
020/300: dt: 0.9000, rms radial error=173.987, avgs=0
025/300: dt: 0.9000, rms radial error=173.098, avgs=0
030/300: dt: 0.9000, rms radial error=172.176, avgs=0
```

```
035/300: dt: 0.9000, rms radial error=171.238, avgs=0
040/300: dt: 0.9000, rms radial error=170.292, avgs=0
045/300: dt: 0.9000, rms radial error=169.345, avgs=0
050/300: dt: 0.9000, rms radial error=168.400, avgs=0
055/300: dt: 0.9000, rms radial error=167.459, avgs=0
060/300: dt: 0.9000, rms radial error=166.521, avgs=0
065/300: dt: 0.9000, rms radial error=165.588, avgs=0
070/300: dt: 0.9000, rms radial error=164.661, avgs=0
075/300: dt: 0.9000, rms radial error=163.738, avgs=0
080/300: dt: 0.9000, rms radial error=162.821, avgs=0
085/300: dt: 0.9000, rms radial error=161.908, avgs=0
090/300: dt: 0.9000, rms radial error=161.000, avgs=0
095/300: dt: 0.9000, rms radial error=160.097, avgs=0
100/300: dt: 0.9000, rms radial error=159.200, avgs=0
105/300: dt: 0.9000, rms radial error=158.307, avgs=0
110/300: dt: 0.9000, rms radial error=157.419, avgs=0
115/300: dt: 0.9000, rms radial error=156.536, avgs=0
120/300: dt: 0.9000, rms radial error=155.658, avgs=0
125/300: dt: 0.9000, rms radial error=154.784, avgs=0
130/300: dt: 0.9000, rms radial error=153.916, avgs=0
135/300: dt: 0.9000, rms radial error=153.052, avgs=0
140/300: dt: 0.9000, rms radial error=152.193, avgs=0
145/300: dt: 0.9000, rms radial error=151.339, avgs=0
150/300: dt: 0.9000, rms radial error=150.489, avgs=0
155/300: dt: 0.9000, rms radial error=149.643, avgs=0
160/300: dt: 0.9000, rms radial error=148.803, avgs=0
165/300: dt: 0.9000, rms radial error=147.967, avgs=0
170/300: dt: 0.9000, rms radial error=147.135, avgs=0
175/300: dt: 0.9000, rms radial error=146.308, avgs=0
180/300: dt: 0.9000, rms radial error=145.485, avgs=0
185/300: dt: 0.9000, rms radial error=144.667, avgs=0
190/300: dt: 0.9000, rms radial error=143.853, avgs=0
195/300: dt: 0.9000, rms radial error=143.044, avgs=0
200/300: dt: 0.9000, rms radial error=142.239, avgs=0
205/300: dt: 0.9000, rms radial error=141.438, avgs=0
210/300: dt: 0.9000, rms radial error=140.642, avgs=0
215/300: dt: 0.9000, rms radial error=139.850, avgs=0
220/300: dt: 0.9000, rms radial error=139.063, avgs=0
225/300: dt: 0.9000, rms radial error=138.280, avgs=0
230/300: dt: 0.9000, rms radial error=137.501, avgs=0
235/300: dt: 0.9000, rms radial error=136.726, avgs=0
240/300: dt: 0.9000, rms radial error=135.956, avgs=0
245/300: dt: 0.9000, rms radial error=135.190, avgs=0
250/300: dt: 0.9000, rms radial error=134.429, avgs=0
255/300: dt: 0.9000, rms radial error=133.671, avgs=0
260/300: dt: 0.9000, rms radial error=132.918, avgs=0
265/300: dt: 0.9000, rms radial error=132.169, avgs=0
270/300: dt: 0.9000, rms radial error=131.424, avgs=0
275/300: dt: 0.9000, rms radial error=130.684, avgs=0
280/300: dt: 0.9000, rms radial error=129.947, avgs=0
285/300: dt: 0.9000, rms radial error=129.215, avgs=0
290/300: dt: 0.9000, rms radial error=128.487, avgs=0
295/300: dt: 0.9000, rms radial error=127.763, avgs=0 300/300: dt:
0.9000, rms radial error=127.043, avgs=0

spherical inflation complete.
epoch 1 (K=10.0), pass 1, starting sse = 14257.83 taking
momentum steps... taking momentum steps... taking momentum
steps... taking momentum steps... pass 1 complete, delta
sse/iter = 0.01/13 = 0.00044 epoch 2 (K=40.0), pass 1,
starting sse = 2204.21 taking momentum steps... taking
momentum steps... taking momentum steps... taking momentum
steps...
pass 1 complete, delta sse/iter = 0.01/13 = 0.00051 epoch 3
(K=160.0), pass 1, starting sse = 183.78 taking momentum
steps... taking momentum steps... taking momentum steps...
taking momentum steps...
pass 1 complete, delta sse/iter = 0.16/15 = 0.01078 epoch 4
(K=640.0), pass 1, starting sse = 6.22 taking momentum
steps... taking momentum steps... taking momentum steps...
taking momentum steps...
pass 1 complete, delta sse/iter = 0.14/20 = 0.00711 final
distance error %100000.00 writing spherical brain to
../surf/rh.qsphere.nofix spherical transformation took
0.0196 hours FSRUNTIME@ mris_sphere  0.0196 hours 2 threads
#VMPC# mris_sphere VmPeak  521720 mris_sphere done
@#@FSTIME  2024:04:13:11:57:14 mris_sphere N 9 e 70.57 S 11.73 U 102.08 P 161% M 202600 F 0 R 5736452 W 0 c 299 w 1314 I 0 O 8760 L 2.58 2.20 2.22 @#@FSLOADPOST 2024:04:13:11:58:25
mris_sphere N 9 2.71 2.32 2.26
### Fix Topology lh Sat Apr 13 11:58:25 UTC 2024  mris_fix_topology -mgz -sphere qsphere.nofix -inflated inflated.nofix -orig orig.nofix -out orig.premesh

-ga -seed 1234 014_S_4401 lh

reading spherical homeomorphism from 'qsphere.nofix' reading
inflated coordinates from 'inflated.nofix' reading original
coordinates from 'orig.nofix' using genetic algorithm with
optimized parameters setting seed for random number
genererator to 1234

************************************************************ Topology
Correction Parameters retessellation mode:           genetic search
number of patches/generation : 10 number of generations :        10
surface mri loglikelihood coefficient :         1.0 volume mri
loglikelihood coefficient :          10.0 normal dot loglikelihood
coefficient :         1.0 quadratic curvature loglikelihood
coefficient : 1.0 volume resolution :                          2
eliminate vertices during search :                1 initial patch
selection :                          1 select all defect vertices :
0 ordering dependant retessellation:              0 use precomputed
edge table :                      0 smooth retessellated patch :
2 match retessellated patch :                     1 verbose mode :
0

************************************************************ INFO: assuming
.mgz format
writing corrected surface to 'orig.premesh'
7.4.1   7.4.1 before topology correction, eno=-6 (nv=124696, nf=249404, ne=374106,
g=4) using quasi-homeomorphic spherical map to tessellate cortical surface...

Correction of the Topology
Finding true center and radius of Spherical Surface...done Surface
centered at (0,0,0) with radius 100.0 in 7 iterations marking ambiguous
vertices... 909 ambiguous faces found in tessellation segmenting
defects...
13 defects found, arbitrating ambiguous regions...
analyzing neighboring defects...
13 defects to be corrected 0 vertices coincident reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.qsphere.nofix... reading brain volume from brain...
reading wm segmentation from wm... Reading original properties of orig.nofix
Reading vertex positions of inflated.nofix
Computing Initial Surface Statistics
      -face      loglikelihood: -9.4408  (-4.7204)
      -vertex    loglikelihood: -6.6973  (-3.3487)
      -normal dot loglikelihood: -3.6722  (-3.6722)
      -quad curv  loglikelihood: -6.1724  (-3.0862)
      Total Loglikelihood : -25.9827
CORRECTING DEFECT 0 (vertices=27, convex hull=73, v0=50908)
After retessellation of defect 0 (v0=50908), euler #=-9 (124137,372217,248071) : difference with theory (-10) = -1
CORRECTING DEFECT 1 (vertices=5, convex hull=26, v0=59963)
After retessellation of defect 1 (v0=59963), euler #=-8 (124139,372229,248082) : difference with theory (-9) = -1
CORRECTING DEFECT 2 (vertices=26, convex hull=64, v0=60327)
After retessellation of defect 2 (v0=60327), euler #=-7 (124151,372290,248132) : difference with theory (-8) = -1
CORRECTING DEFECT 3 (vertices=10, convex hull=18, v0=68605)
After retessellation of defect 3 (v0=68605), euler #=-6 (124153,372302,248143) : difference with theory (-7) = -1
CORRECTING DEFECT 4 (vertices=43, convex hull=77, v0=74093)
After retessellation of defect 4 (v0=74093), euler #=-5 (124166,372372,248201) : difference with theory (-6) = -1
CORRECTING DEFECT 5 (vertices=14, convex hull=20, v0=82992)
After retessellation of defect 5 (v0=82992), euler #=-4 (124167,372380,248209) : difference with theory (-5) = -1
CORRECTING DEFECT 6 (vertices=99, convex hull=91, v0=83507)
After retessellation of defect 6 (v0=83507), euler #=-4 (124202,372534,248328) : difference with theory (-4) = 0
CORRECTING DEFECT 7 (vertices=52, convex hull=31, v0=85119)
After retessellation of defect 7 (v0=85119), euler #=-3 (124210,372567,248354) : difference with theory (-3) = 0
CORRECTING DEFECT 8 (vertices=6, convex hull=17, v0=85818)
After retessellation of defect 8 (v0=85818), euler #=-2 (124212,372576,248362) : difference with theory (-2) = 0
CORRECTING DEFECT 9 (vertices=18, convex hull=19, v0=86037)
After retessellation of defect 9 (v0=86037), euler #=-1 (124215,372593,248377) : difference with theory (-1) = 0
CORRECTING DEFECT 10 (vertices=201, convex hull=75, v0=86744)
After retessellation of defect 10 (v0=86744), euler #=0 (124240,372694,248454) : difference with theory (0) = 0
CORRECTING DEFECT 11 (vertices=43, convex hull=34, v0=92455)
After retessellation of defect 11 (v0=92455), euler #=1 (124243,372709,248467) : difference with theory (1) = 0
CORRECTING DEFECT 12 (vertices=24, convex hull=29, v0=93762)
After retessellation of defect 12 (v0=93762), euler #=2 (124246,372732,248488) : difference with theory (2) = 0 computing
original vertex metric properties... storing new metric properties... computing tessellation statistics... vertex spacing 0.88
+- 0.21 (0.15-->5.05) (max @ vno 85358 --> 86341) face area -nan+- -nan (1000.00-->-1.00) performing soap bubble on
retessellated vertices for 0 iterations... vertex spacing 0.88 +- 0.21 (0.15-->5.05) (max @ vno 85358 --> 86341) face area -nan
+- -nan (1000.00-->-1.00) tessellation finished, orienting corrected surface...
55 mutations (36.7%), 95 crossovers (63.3%), 17 vertices were eliminated building final
representation...
450 vertices and 0 faces have been removed from triangulation after topology correction, eno=2 (nv=124246,
nf=248488, ne=372732, g=0) writing corrected surface to
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig.premesh...

0.000 % of the vertices (0 vertices) exhibit an orientation change removing
intersecting faces
000: 49 intersecting 001: 2 intersecting
terminating search with 0 intersecting
topology fixing took 0.6 minutes
FSRUNTIME@ mris_fix_topology lh  0.0094 hours 2 threads
#VMPC# mris_fix_topology VmPeak  815224
@#@FSTIME  2024:04:13:11:58:25 mris_fix_topology N 14 e 33.77 S 0.48 U 55.95 P 167% M 731752 F 17 R 216871 W 0 c 89 w 52 I 2088 O 11672 L 2.71 2.32 2.26
@#@FSLOADPOST 2024:04:13:11:58:59 mris_fix_topology N 14 2.79 2.38 2.29
### Fix Topology rh Sat Apr 13 11:58:59 UTC 2024  mris_fix_topology -mgz -sphere qsphere.nofix -inflated inflated.nofix -orig orig.nofix -out orig.premesh

-ga -seed 1234 014_S_4401 rh

reading spherical homeomorphism from 'qsphere.nofix' reading
inflated coordinates from 'inflated.nofix' reading original
coordinates from 'orig.nofix' using genetic algorithm with
optimized parameters setting seed for random number
genererator to 1234

************************************************************ Topology
Correction Parameters retessellation mode:           genetic search
number of patches/generation : 10 number of generations :        10
surface mri loglikelihood coefficient :         1.0 volume mri
loglikelihood coefficient :          10.0 normal dot loglikelihood
coefficient :         1.0 quadratic curvature loglikelihood
coefficient : 1.0 volume resolution :                          2
eliminate vertices during search :                1 initial patch
selection :                          1 select all defect vertices :
0
ordering dependant retessellation:              0 use
precomputed edge table :                      0 smooth
retessellated patch :                        2 match
retessellated patch :                         1 verbose mode :
0

************************************************************ INFO: assuming
.mgz format
```

```
writing corrected surface to 'orig.premesh' 7.4.1   7.4.1 before topology correction,
eno=-28 (nv=124444, nf=248944, ne=373416, g=15) using quasi-homeomorphic spherical map
to tessellate cortical surface...

Correction of the Topology
Finding true center and radius of Spherical Surface...done Surface centered
at (0,0,0) with radius 100.0 in 10 iterations marking ambiguous vertices...
1760 ambiguous faces found in tessellation segmenting
defects...
24 defects found, arbitrating ambiguous regions...
analyzing neighboring defects...       -merging
segment 21 into 20
23 defects to be corrected 0 vertices coincident reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.qsphere.nofix.. reading brain volume from brain...
reading wm segmentation from wm... Reading original properties of orig.nofix
Reading vertex positions of inflated.nofix
Computing Initial Surface Statistics
      -face      loglikelihood: -9.5001  (-4.7500)
      -vertex    loglikelihood: -6.6905  (-3.3452)
      -normal dot loglikelihood: -3.6640  (-3.6640)
      -quad curv  loglikelihood: -6.1418  (-3.0709)
      Total Loglikelihood : -25.9963
CORRECTING DEFECT 0 (vertices=36, convex hull=26, v0=38276)
After retessellation of defect 0 (v0=38276), euler #=-20 (123346,369552,246186) : difference with theory (-20) = 0
CORRECTING DEFECT 1 (vertices=23, convex hull=37, v0=41109)
After retessellation of defect 1 (v0=41109), euler #=-19 (123350,369576,246207) : difference with theory (-19) = 0
CORRECTING DEFECT 2 (vertices=24, convex hull=61, v0=45315)
After retessellation of defect 2 (v0=45315), euler #=-18 (123364,369640,246258) : difference with theory (-18) = 0
CORRECTING DEFECT 3 (vertices=6, convex hull=27, v0=54391)
After retessellation of defect 3 (v0=54391), euler #=-17 (123366,369653,246270) : difference with theory (-17) = 0
CORRECTING DEFECT 4 (vertices=7, convex hull=23, v0=56780)
After retessellation of defect 4 (v0=56780), euler #=-16 (123367,369662,246279) : difference with theory (-16) = 0
CORRECTING DEFECT 5 (vertices=17, convex hull=24, v0=79093)
After retessellation of defect 5 (v0=79091), euler #=-15 (123369,369674,246290) : difference with theory (-15) = 0
CORRECTING DEFECT 6 (vertices=71, convex hull=84, v0=82317)
After retessellation of defect 6 (v0=82317), euler #=-14 (123378,369735,246343) : difference with theory (-14) = 0
CORRECTING DEFECT 7 (vertices=97, convex hull=90, v0=82756)
After retessellation of defect 7 (v0=82756), euler #=-13 (123416,369886,246457) : difference with theory (-13) = 0
CORRECTING DEFECT 8 (vertices=13, convex hull=17, v0=84390)
After retessellation of defect 8 (v0=84390), euler #=-12 (123419,369900,246469) : difference with theory (-12) = 0
CORRECTING DEFECT 9 (vertices=105, convex hull=121, v0=86422)
After retessellation of defect 9 (v0=86422), euler #=-11 (123462,370082,246609) : difference with theory (-11) = 0 CORRECTING DEFECT 10
(vertices=38, convex hull=49, v0=87264)
After retessellation of defect 10 (v0=87264), euler #=-10 (123474,370136,246652) : difference with theory (-10) = 0 CORRECTING DEFECT 11
(vertices=43, convex hull=85, v0=89286)
After retessellation of defect 11 (v0=89286), euler #=-9 (123490,370215,246716) : difference with theory (-9) = 0
CORRECTING DEFECT 12 (vertices=8, convex hull=21, v0=89333)
After retessellation of defect 12 (v0=89333), euler #=-8 (123492,370226,246726) : difference with theory (-8) = 0
CORRECTING DEFECT 13 (vertices=60, convex hull=79, v0=90491)
After retessellation of defect 13 (v0=90491), euler #=-7 (123520,370344,246817) : difference with theory (-7) = 0
CORRECTING DEFECT 14 (vertices=195, convex hull=46, v0=91180)
After retessellation of defect 14 (v0=91180), euler #=-7 (123530,370395,246858) : difference with theory (-6) = 1
CORRECTING DEFECT 15 (vertices=56, convex hull=69, v0=91512)
After retessellation of defect 15 (v0=91512), euler #=-6 (123543,370463,246914) : difference with theory (-5) = 1
CORRECTING DEFECT 16 (vertices=117, convex hull=59, v0=92900)
After retessellation of defect 16 (v0=92900), euler #=-5 (123563,370551,246983) : difference with theory (-4) = 1
CORRECTING DEFECT 17 (vertices=30, convex hull=55, v0=94016)
After retessellation of defect 17 (v0=94016), euler #=-4 (123572,370598,247022) : difference with theory (-3) = 1
CORRECTING DEFECT 18 (vertices=20, convex hull=47, v0=95322)
After retessellation of defect 18 (v0=95322), euler #=-3 (123581,370641,247057) : difference with theory (-2) = 1
CORRECTING DEFECT 19 (vertices=25, convex hull=32, v0=96744)
After retessellation of defect 19 (v0=96744), euler #=-2 (123586,370664,247076) : difference with theory (-1) = 1 CORRECTING DEFECT 20
(vertices=53, convex hull=107, v0=98973)
After retessellation of defect 20 (v0=98973), euler #=0 (123615,370794,247179) : difference with theory (0) = 0 CORRECTING DEFECT 21
(vertices=26, convex hull=75, v0=104298)
After retessellation of defect 21 (v0=104298), euler #=1 (123627,370859,247233) : difference with theory (1) = 0
CORRECTING DEFECT 22 (vertices=35, convex hull=44, v0=113265)
After retessellation of defect 22 (v0=113265), euler #=2 (123651,370947,247298) : difference with theory (2) = 0 computing
original vertex metric properties... storing new metric properties... computing tessellation statistics... vertex spacing 0.89 +-
0.22 (0.05-->11.09) (max @ vno 90731 --> 96059) face area -nan +- -nan (1000.00-->-1.00) performing soap bubble on retessellated
vertices for 0 iterations... vertex spacing 0.89 +- 0.22 (0.05-->11.09) (max @ vno 90731 --> 96059) face area -nan +- -nan
(1000.00-->-1.00) tessellation finished, orienting corrected surface...
81 mutations (34.3%), 155 crossovers (65.7%), 62 vertices were eliminated building final
representation...
793 vertices and 0 faces have been removed from triangulation after topology correction, eno=2 (nv=123651,
nf=247298, ne=370947, g=0) writing corrected surface to
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig.premesh...

0.000 % of the vertices (0 vertices) exhibit an orientation change removing
intersecting faces
000: 164 intersecting 001: 3
intersecting
terminating search with 0 intersecting topology fixing
took 0.9 minutes
FSRUNTIME@ mris_fix_topology rh  0.0148 hours 2 threads
#VMPC# mris_fix_topology VmPeak  815120
@#@FSTIME  2024:04:13:11:58:59 mris_fix_topology N 14 e 53.25 S 0.45 U 94.81 P 178% M 731572 F 0 R 216626 W 0 c 90 w 50 I 0 O 11624 L 2.79 2.38 2.29
@#@FSLOADPOST 2024:04:13:11:59:52 mris_fix_topology N 14 2.76 2.44 2.31  mris_euler_number

../surf/lh.orig.premesh

euler # = v-e+f = 2g-2: 124246 - 372732 + 248488 = 2 --> 0 holes
     F =2V-4:          248488 = 248492-4 (0)

2E=3F:           745464 = 745464 (0) total defect

index = 0  mris_euler_number ../surf/rh.orig.premesh

euler # = v-e+f = 2g-2: 123651 - 370947 + 247298 = 2 --> 0 holes
     F =2V-4:          247298 = 247302-4 (0)       2E=3F:
741894 = 741894 (0)

total defect index = 0 Sat Apr 13
11:59:53 UTC 2024

setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed cd
/home/jaibhatoa/mri_processed/014_S_4401/scripts
/usr/local/freesurfer/7.4.1/bin/defect2seg --s 014_S_4401 --cortex

freesurfer-linux-ubuntu22_x86_64-7.4.1-20230614-7eb8460 defect2seg 7.4.1
Linux vm4--jb--3d--mri--pre-processing 6.5.0-1016-gcp #16-22.04.1-Ubuntu SMP Sat Mar  9 00:58:37 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux pid 4985 mri_label2label --label-cortex /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig.nofix
/home/jaibhatoa/mri_processed/014_S_4401/mri/aseg.presurf.mgz 0 /home/jaibhatoa/mri_processed/014_S_4401/label/lh.nofix.cortex.label

 Generating cortex label... RemoveHipAmyg=0
 NucAccIsMedialWall=0  mris->useRealRAS=0
15 non-cortical segments detected only using
segment with 7412 vertices erasing segment 1
(vno[0] = 70695) erasing segment 2 (vno[0] =
74851) erasing segment 3 (vno[0] = 76641)
erasing segment 4 (vno[0] = 83298) erasing
segment 5 (vno[0] = 86738) erasing segment 6
(vno[0] = 86744) erasing segment 7 (vno[0] =
87728) erasing segment 8 (vno[0] = 87774)
erasing segment 9 (vno[0] = 87818) erasing
segment 10 (vno[0] = 88730) erasing segment
11 (vno[0] = 88909) erasing segment 12
(vno[0] = 89846) erasing segment 13 (vno[0]
= 90741) erasing segment 14 (vno[0] = 96946)
mri_label2vol --defects /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig.nofix /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.defect_labels /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz 1000 0 /home/jaibhatoa/mri_processed/014_S_4401/mri/ surface.defects.mgz
/home/jaibhatoa/mri_processed/014_S_4401/label/lh.nofix.cortex.label mri_label2vol supposed to be reproducible but seed not set
Contraining to label /home/jaibhatoa/mri_processed/014_S_4401/label/lh.nofix.cortex.label
Changing input type 0 to MRI_INT
Converting defects to volume: offset=1000, merge=0
Writing to /home/jaibhatoa/mri_processed/014_S_4401/mri/surface.defects.mgz
mris_defects_pointset -s /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig.nofix -d /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.defect_labels -o /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.defects.pointset --label /home/jaibhatoa/mri_proce
ssed/014_S_4401/label/lh.nofix.cortex.label
Reading in surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig.nofix
Reading in defect segmentation /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.defect_labels
Reading in label /home/jaibhatoa/mri_processed/014_S_4401/label/lh.nofix.cortex.label
#VMPC# mris_defects_pointset 259092 mris_defects_pointset done mri_label2label --label-cortex /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig.nofix /home/jaibhatoa/mri_processed/014_S_4401/mri/aseg.presurf.mgz 0
/home/jaibhatoa/mri_processed/014_S_4401/label/rh.nofix.cortex.label

 Generating cortex label... RemoveHipAmyg=0
 NucAccIsMedialWall=0  mris->useRealRAS=0
16 non-cortical segments detected only using
segment with 7267 vertices erasing segment 1
(vno[0] = 54452) erasing segment 2 (vno[0] =
56813) erasing segment 3 (vno[0] = 57931)
erasing segment 4 (vno[0] = 59959) erasing
segment 5 (vno[0] = 59989) erasing segment 6
(vno[0] = 75844) erasing segment 7 (vno[0] =
79521) erasing segment 8 (vno[0] = 90164)
erasing segment 9 (vno[0] = 91138) erasing
segment 10 (vno[0] = 93726) erasing segment
11 (vno[0] = 93748) erasing segment 12
(vno[0] = 94570) erasing segment 13 (vno[0]
= 106122) erasing segment 14 (vno[0] =
109333) erasing segment 15 (vno[0] = 111698)
mri_label2vol --defects /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig.nofix /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.defect_labels /home/jaibhatoa/mri_processed/014_S_4401/mri/surface.defects.mgz 2000 1 /home/jaibhatoa/mri_processed/014_
S_4401/mri/surface.defects.mgz /home/jaibhatoa/mri_processed/014_S_4401/label/rh.nofix.cortex.label mri_label2vol supposed to be
reproducible but seed not set
Contraining to label /home/jaibhatoa/mri_processed/014_S_4401/label/rh.nofix.cortex.label Converting defects to
volume: offset=2000, merge=1
Writing to /home/jaibhatoa/mri_processed/014_S_4401/mri/surface.defects.mgz
mris_defects_pointset -s /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig.nofix -d /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.defect_labels -o /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.defects.pointset --label /home/jaibhatoa/mri_proce
ssed/014_S_4401/label/rh.nofix.cortex.label
Reading in surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig.nofix
Reading in defect segmentation /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.defect_labels
Reading in label /home/jaibhatoa/mri_processed/014_S_4401/label/rh.nofix.cortex.label
#VMPC# mris_defects_pointset 258792 mris_defects_pointset done

Started at Sat Apr 13 11:59:53 UTC 2024
Ended   at Sat Apr 13 12:00:17 UTC 2024
Defect2seg-Run-Time-Sec 24
Defect2seg-Run-Time-Min 0.48
Defect2seg-Run-Time-Hours 0.01

tkmeditfv 014_S_4401 brain.finalsurfs.mgz -defect defect2seg Done
@#@FSTIME  2024:04:13:11:59:53 defect2seg N 3 e 24.01 S 0.84 U 24.09 P 103% M 356840 F 47 R 423699 W 0 c 50 w 269 I 7512 O 20392 L 2.76 2.44 2.31
@#@FSLOADPOST 2024:04:13:12:00:17 defect2seg N 3 2.57 2.42 2.31

 mris_remesh --remesh --iters 3 --input /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig.premesh --output /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig

iters = 3 standard remeshing without target    adjusted 1:
0.707462 remeshing to edge length 0.707462 with 3
iterations avg qual before   : 0.892656  after: 0.97107

Removing intersections
Remeshed surface quality stats nv0 = 124246  nv = 129904  1.04554
Area    259804  0.30002  0.03351 0.062605   0.5197
Corner  779412 60.00000  8.81778 13.467877 151.4435
Edge     389706   0.84035  0.08223 0.457902   1.2553 Hinge
389706  9.55034 10.27727 0.000001 130.4315 mris_remesh done
@#@FSTIME  2024:04:13:12:00:17 mris_remesh N 7 e 25.04 S 0.48 U 25.31 P 103% M 717368 F 22 R 274683 W 0 c 46 w 32 I 3656 O 9136 L 2.57 2.42 2.31
@#@FSLOADPOST 2024:04:13:12:00:42 mris_remesh N 7 2.37 2.38 2.30  mris_remesh --remesh --iters 3 --input /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig.premesh --output

/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig
```

```
iters = 3 standard remeshing without target    adjusted 1:
0.708275 remeshing to edge length 0.708275 with 3
iterations avg qual before   : 0.892382  after: 0.971326

Removing intersections
Remeshed surface quality stats nv0 = 123651  nv = 129260  1.04536
Area    258516  0.30053  0.03348 0.075541   0.4838
Corner  775548 60.00000  8.77863 17.269223 144.7527
Edge     387774  0.84098  0.08196 0.469073   1.3070 Hinge
387774  9.52231 10.25881 0.000000 147.9457 mris_remesh done
@#@FSTIME  2024:04:13:12:00:42 mris_remesh N 7 e 26.83 S 0.50 U 27.08 P 102% M 714824 F 0 R 270843 W 0 c 47 w 15 I 0 O 9096 L 2.37 2.38 2.30
@#@FSLOADPOST 2024:04:13:12:01:09 mris_remesh N 7 2.25 2.35 2.29
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_remove_intersection

../surf/lh.orig ../surf/lh.orig

intersection removal took 0.00 hours Found 0
intersections
writing corrected surface to ../surf/lh.orig
@#@FSTIME  2024:04:13:12:01:09 mris_remove_intersection N 2 e 4.06 S 0.17 U 3.98 P 102% M 323816 F 21 R 93509 W 0 c 9 w 23 I 3952 O 9136 L 2.25 2.35 2.29
@#@FSLOADPOST 2024:04:13:12:01:13 mris_remove_intersection N 2 2.23 2.35 2.29  rm -f

../surf/lh.inflated

/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_remove_intersection

../surf/rh.orig ../surf/rh.orig

intersection removal took 0.00 hours Found 0
intersections
writing corrected surface to ../surf/rh.orig
@#@FSTIME  2024:04:13:12:01:13 mris_remove_intersection N 2 e 4.09 S 0.19 U 4.02 P 102% M 320624 F 0 R 92697 W 0 c 21 w 6 I 0 O 9096 L 2.23 2.35 2.29
@#@FSLOADPOST 2024:04:13:12:01:17 mris_remove_intersection N 2 2.21 2.34 2.28  rm -f

../surf/rh.inflated

#---------------------------------------------#@#
AutoDetGWStats lh Sat Apr 13 12:01:17 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_autodet_gwstats --o ../surf/autodet.gw.stats.lh.dat --i brain.finalsurfs.mgz --wm wm.mgz --surf ../surf/lh.orig.premesh
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed mris_autodet_gwstats --o
../surf/autodet.gw.stats.lh.dat --i brain.finalsurfs.mgz --wm wm.mgz --surf ../surf/lh.orig.premesh

border white:    231730 voxels (1.38%) border gray
259803 voxels (1.55%)
Reading in intensity volume brain.finalsurfs.mgz
Reading in wm volume wm.mgz
Reading in surf ../surf/lh.orig.premesh
Auto detecting stats
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 Binarizing
thresholding at 5
computing class statistics... low=30, hi=110.000000
CCS WM (98.0): 97.9 +- 8.8 [70.0 --> 110.0] CCS GM
(73.0) : 72.6 +- 11.1 [30.0 --> 110.0]
white_mean = 97.9439 +/- 8.76123, gray_mean = 72.5759 +/- 11.0839 using
class modes intead of means, discounting robust sigmas....
MRIScomputeClassModes(): min=0 max=221 nbins=222 intensity peaks found at
WM=102+-6.1,     GM=69+-7.8 white_mode = 102, gray_mode = 69
std_scale = 1
Applying sanity checks, max_scale_down = 0.2 setting
MIN_GRAY_AT_WHITE_BORDER to 57.9 (was 70.000000) setting
MAX_BORDER_WHITE to 110.8 (was 105.000000) setting
MIN_BORDER_WHITE to 69.0 (was 85.000000) setting MAX_CSF to 46.8
(was 40.000000) setting MAX_GRAY to 93.2 (was 95.000000)
setting MAX_GRAY_AT_CSF_BORDER to  57.9 (was 75.000000) setting
MIN_GRAY_AT_CSF_BORDER to 35.7 (was 40.000000) When placing the
white surface   white_border_hi   = 110.761;   white_border_low
= 69;   white_outside_low = 57.9161;   white_inside_hi   = 120;
white_outside_hi    = 110.761; When  placing the pial surface
pial_border_hi     = 57.9161;    pial_border_low   = 35.7484;
pial_outside_low  =  10;       pial_inside_hi      =  93.2388;
pial_outside_hi  = 52.3742;
#VMPC# mris_autodet_gwstats VmPeak  306708 mris_autodet_gwstats done
@#@FSTIME  2024:04:13:12:01:17 mris_autodet_gwstats N 8 e 2.83 S 0.14 U 2.94 P 109% M 226100 F 24 R 63976 W 0 c 10 w 27 I 4576 O 8 L 2.21 2.34 2.28
@#@FSLOADPOST 2024:04:13:12:01:20 mris_autodet_gwstats N 8 2.21 2.34 2.28
#---------------------------------------------#@#
AutoDetGWStats rh Sat Apr 13 12:01:20 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_autodet_gwstats --o ../surf/autodet.gw.stats.rh.dat --i brain.finalsurfs.mgz --wm wm.mgz --surf ../surf/rh.orig.premesh
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed mris_autodet_gwstats --o
../surf/autodet.gw.stats.rh.dat --i brain.finalsurfs.mgz --wm wm.mgz --surf ../surf/rh.orig.premesh

border white:    231730 voxels (1.38%) border gray
259803 voxels (1.55%)
Reading in intensity volume brain.finalsurfs.mgz
Reading in wm volume wm.mgz
Reading in surf ../surf/rh.orig.premesh
Auto detecting stats
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 Binarizing
thresholding at 5
computing class statistics... low=30, hi=110.000000
CCS WM (98.0): 97.9 +- 8.8 [70.0 --> 110.0] CCS GM
(73.0) : 72.6 +- 11.1 [30.0 --> 110.0]
white_mean = 97.9439 +/- 8.76123, gray_mean = 72.5759 +/- 11.0839 using
class modes intead of means, discounting robust sigmas....
MRIScomputeClassModes(): min=0 max=221 nbins=222 intensity peaks found at
WM=103+-7.8,     GM=68+-9.6 white_mode = 103, gray_mode = 68
std_scale = 1
Applying sanity checks, max_scale_down = 0.2 setting
MIN_GRAY_AT_WHITE_BORDER to 56.9 (was 70.000000) setting
MAX_BORDER_WHITE to 111.8 (was 105.000000) setting
MIN_BORDER_WHITE to 68.0 (was 85.000000) setting MAX_CSF to 45.8
(was 40.000000) setting MAX_GRAY to 94.2 (was 95.000000)
setting MAX_GRAY_AT_CSF_BORDER to  56.9 (was 75.000000) setting
MIN_GRAY_AT_CSF_BORDER to 34.7 (was 40.000000) When placing the
white surface   white_border_hi   = 111.761;   white_border_low
= 68;   white_outside_low = 56.9161;   white_inside_hi   = 120;
white_outside_hi    = 111.761; When  placing the pial surface
pial_border_hi   = 56.9161;
    pial_border_low     = 34.7484;
pial_outside_low       =       10;
pial_inside_hi         =  94.2388;
pial_outside_hi  = 51.3742;
#VMPC# mris_autodet_gwstats VmPeak  306036 mris_autodet_gwstats done
@#@FSTIME  2024:04:13:12:01:20 mris_autodet_gwstats N 8 e 2.83 S 0.14 U 2.97 P 110% M 225436 F 0 R 66882 W 0 c 8 w 9 I 0 O 8 L 2.21 2.34 2.28
@#@FSLOADPOST 2024:04:13:12:01:23 mris_autodet_gwstats N 8 2.19 2.33 2.28
#---------------------------------------------#@#
WhitePreparc lh Sat Apr 13 12:01:23 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --adgws-in ../surf/autodet.gw.stats.lh.dat --wm wm.mgz --threads 2 --invol brain.finalsurfs.mgz --lh --i ../surf/lh.orig --o ../surf/lh.white.preaparc --white --seg aseg.presurf.mgz --nsmooth 5
7.4.1
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed mris_place_surface --adgws-in ../surf/autodet.gw.stats.lh.dat --wm wm.mgz --threads 2 --invol brain.finalsurfs.mgz --lh --i ../surf/lh.orig --o
../surf/lh.white.preaparc --white --seg aseg.presurf.mgz --nsmooth 5

Reading in input surface ../surf/lh.orig
Smoothing surface before ripping with 5 iterations
Area    259804  0.26517  0.06316 0.003038   0.5802
Corner  779412 60.00000  9.63781 10.267782 140.2335
Edge    389706  0.78643  0.11490 0.062018   1.3238
Hinge   389706  6.35424  6.49723 0.000003 131.0597
Not reading in aparc
Reading in input volume brain.finalsurfs.mgz
Reading in seg volume aseg.presurf.mgz
Reading in wm volume wm.mgz
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 MRIfindBrightNonWM(): 995 bright
non-wm voxels segmented.
Masking bright non-wm for white surface
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0#
MRISripMidline(): nripped=0
removing 2 vertices from ripped group in thread:0
#FML# MRISripMidline(): nmarked=7035, nmarked2=0, nripped=7035
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 MRISripSegs(): -2 2 0.5
ripped 0
vertex 64952: xyz = (-46.7177,-6.81348,-21.4904) oxyz = (-46.7177,-6.81348,-21.4904) wxzy = (-46.7177,-6.81348,-21.4904) pxyz = (0,0,0)
CBVO Creating mask 129904 n_averages 4
Iteration 0 ========================================== n_averages=4,
current_sigma=2
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0#
MRISripMidline(): nripped=7035
removing 2 vertices from ripped group in thread:0
#FML# MRISripMidline(): nmarked=7035, nmarked2=0, nripped=7035
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing   target   border   values   Entering
MRIScomputeBorderValues_new()    inside_hi   =
120.0000000;      border_hi     =  110.7612300;
border_low    =    69.0000000;    outside_low =
57.9161340;      outside_hi     =  110.7612300;
sigma    =    2;          max_thickness   =   10;
step_size=0.5;     STEP_SIZE=0.1;    which  = 1
thresh = 0.5     flags = 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=2 had to be increased for 74 vertices, nripped=7035
mean border=79.6, 26 (26) missing vertices, mean dist 0.2 [1.0 (%33.8)->0.9 (%66.2)] %52 local
maxima, %43 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0947 min


Finding expansion regions mean absolute
distance = 0.91 +- 1.16
4334 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
```

```
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5   parms->check_tol = 0,
niterations = 100
tol=1.0e-04, sigma=2.0, host=vm4--, nav=4, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000 desired_rms_height
0.000000 momentum 0.000000 nbhd_size 0 max_nbrs 0 niterations 100 nsurfaces 0 SURFACES 3 flags 0 (0) use curv 0 no sulc 0 no rigid align 0 mris->nsize 2
mris->hemisphere 0 randomSeed 0

000: dt: 0.0000, sse=3610428.0, rms=11.884
001: dt: 0.5000, sse=2004823.6, rms=8.722 (26.606%)
002: dt: 0.5000, sse=1239560.5, rms=6.706 (23.118%)
003: dt: 0.5000, sse=849251.1, rms=5.386 (19.678%)
004: dt: 0.5000, sse=644621.2, rms=4.548 (15.559%)
005: dt: 0.5000, sse=539863.8, rms=4.045 (11.054%)
006: dt: 0.5000, sse=489043.9, rms=3.773 (6.737%)
007: dt: 0.5000, sse=463768.2, rms=3.629 (3.821%)
008: dt: 0.5000, sse=451844.0, rms=3.550 (2.167%) 009: dt:
0.5000, sse=443425.8, rms=3.499 (1.434%)
rms = 3.4673/3.4992, sse=444717.1/443425.8, time step reduction 1 of 3 to 0.250  0 1 1
010: dt: 0.5000, sse=444717.1, rms=3.467 (0.910%)
011: dt: 0.2500, sse=276233.7, rms=2.294 (33.835%)
012: dt: 0.2500, sse=241374.2, rms=1.959 (14.595%)
013: dt: 0.2500, sse=234809.8, rms=1.883 (3.893%) 014: dt:
0.2500, sse=229706.5, rms=1.828 (2.911%)
rms = 1.8021/1.8282, sse=227850.9/229706.5, time step reduction 2 of 3 to 0.125  0 0 1
015: dt: 0.2500, sse=227850.9, rms=1.802 (1.431%) 016: dt:
0.1250, sse=223078.0, rms=1.735 (3.738%)
rms = 1.7235/1.7347, sse=222489.7/223078.0, time step reduction 3 of 3 to 0.062  0 0 1
017: dt: 0.1250, sse=222489.7, rms=1.724 (0.644%)   maximum number
of reductions reached, breaking from loop positioning took 1.1
minutes   done positioning surface
Iteration 1 ========================================= n_averages=2,
current_sigma=1
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...   which=1,
fix_mtl=0, using annot = 0 #FML0# MRISripMidline(): nripped=7035 removing 3 vertices from ripped group
in thread:0 removing 2 vertices from ripped group in thread:0 removing 4 vertices from ripped group in
thread:0 removing 2 vertices from ripped group in thread:0
#FML# MRISripMidline(): nmarked=7224, nmarked2=3, nripped=7224
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing   target   border   values   Entering
MRIScomputeBorderValues_new():    inside_hi   =
120.0000000;      border_hi     = 110.7612300;
border_low    =    69.0000000;    outside_low =
57.9161340;      outside_hi    =  110.7612300;
sigma    =   1;        max_thickness   =   10;
step_size=0.5;      STEP_SIZE=0.1;    which  = 1
thresh = 0.5    flags = 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=1 had to be increased for 132 vertices, nripped=7224
mean border=83.3, 60 (1) missing vertices, mean dist -0.3 [0.5 (%73.2)->0.3 (%26.8))] %71 local
maxima, %24 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0622 min


Finding expansion regions mean absolute
distance = 0.42 +- 0.67
3821 vertices more than 2 sigmas from mean.
Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0 Positioning
surface Entering MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5   parms->check_tol = 0,
niterations = 100
tol=1.0e-04, sigma=1.0, host=vm4--, nav=2, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=877250.9, rms=5.262 018: dt: 0.5000,
sse=481347.4, rms=3.402 (35.341%)
rms = 3.4453/3.4025, sse=487047.1/481347.4, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
019: dt: 0.2500, sse=362771.7, rms=2.595 (23.719%)
020: dt: 0.2500, sse=294920.6, rms=1.990 (23.338%)
021: dt: 0.2500, sse=268359.8, rms=1.690 (15.038%)
022: dt: 0.2500, sse=258573.0, rms=1.564 (7.482%) 023: dt:
0.2500, sse=253267.8, rms=1.489 (4.805%)
rms = 1.4464/1.4889, sse=250367.3/253267.8, time step reduction 2 of 3 to 0.125  0 0 1
024: dt: 0.2500, sse=250367.3, rms=1.446 (2.851%) 025: dt:
0.1250, sse=246449.7, rms=1.383 (4.410%)
rms = 1.3732/1.3826, sse=245875.8/246449.7, time step reduction 3 of 3 to 0.062  0 0 1
026: dt: 0.1250, sse=245875.8, rms=1.373 (0.680%)   maximum number
of reductions reached, breaking from loop positioning took 0.6
minutes   done positioning surface
Iteration 2 ========================================= n_averages=1,
current_sigma=0.5
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0# MRISripMidline():
nripped=7224 removing 3 vertices from ripped group in thread:0 removing
4 vertices from ripped group in thread:0 removing 4 vertices from ripped
group in thread:0 removing 3 vertices from ripped group in thread:0
removing 2 vertices from ripped group in thread:0 #FML#
MRISripMidline(): nmarked=7235, nmarked2=1, nripped=7235
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing target border values Entering
MRIScomputeBorderValues_new():
    inside_hi     =  120.0000000;
border_hi     =   110.7612300;
border_low    =     69.0000000;
outside_low   =      57.9161340;
outside_hi    =   110.7612300;
sigma  =  0.5;    max_thickness  =
10;                step_size=0.5;
STEP_SIZE=0.1;       which  =  1
thresh  =   0.5      flags  =  0
CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904      Gdiag_no=-1
vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=0.5 had to be increased for 244 vertices, nripped=7235
mean border=86.1, 67 (0) missing vertices, mean dist -0.2 [0.3 (%72.8)->0.2 (%27.2))] %85 local
maxima, %10 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0332 min


Finding expansion regions mean absolute
distance = 0.27 +- 0.38
3308 vertices more than 2 sigmas from mean.
Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0 Positioning
surface Entering MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5   parms->check_tol = 0,
niterations = 100
tol=1.0e-04, sigma=0.5, host=vm4--, nav=1, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=517492.2, rms=3.628 027: dt: 0.5000,
sse=422144.8, rms=3.014 (16.920%)
rms = 3.2995/3.0142, sse=460601.1/422144.8, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
028: dt: 0.2500, sse=293715.1, rms=1.982 (34.236%)
029: dt: 0.2500, sse=250395.4, rms=1.491 (24.784%) 030: dt:
0.2500, sse=239966.8, rms=1.341 (10.030%)
rms = 1.3055/1.3414, sse=237519.1/239966.7, time step reduction 2 of 3 to 0.125  0 0 1
031: dt: 0.2500, sse=237519.1, rms=1.305 (2.679%) 032: dt:
0.1250, sse=231314.6, rms=1.203 (7.878%)
rms = 1.1956/1.2026, sse=230721.8/231314.6, time step reduction 3 of 3 to 0.062  0 0 1
033: dt: 0.1250, sse=230721.8, rms=1.196 (0.587%)   maximum number
of reductions reached, breaking from loop positioning took 0.5
minutes   done positioning surface
Iteration 3 ========================================= n_averages=0,
current_sigma=0.25
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0# MRISripMidline():
nripped=7235 removing 4 vertices from ripped group in thread:0 #FML#
MRISripMidline(): nmarked=7292, nmarked2=2, nripped=7292
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247 247 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing   target   border   values   Entering
MRIScomputeBorderValues_new():    inside_hi   =
120.0000000;      border_hi     = 110.7612300;
border_low    =    69.0000000;    outside_low =
57.9161340;      outside_hi    =  110.7612300;
sigma    =   0.25;       max_thickness   =   10;
step_size=0.5;      STEP_SIZE=0.1;    which  = 1
thresh = 0.5    flags = 0   CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0              nvertices=129904
Gdiag_no=-1   vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=0.25 had to be increased for 300 vertices, nripped=7292
mean border=86.9, 117 (0) missing vertices, mean dist -0.0 [0.2 (%56.2)->0.2 (%43.8))] %88 local
maxima, % 6 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0209 min


Finding expansion regions mean absolute
distance = 0.21 +- 0.31
2882 vertices more than 2 sigmas from mean.
Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0 Positioning
surface Entering MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5   parms->check_tol = 0,
niterations = 100
tol=1.0e-04, sigma=0.2, host=vm4--, nav=0, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=259416.8, rms=1.636
rms = 1.8806/1.6359, sse=286517.4/259416.8, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
034: dt: 0.2500, sse=224585.0, rms=1.116 (31.755%) 035: dt:
0.2500, sse=213539.7, rms=0.883 (20.948%)
rms = 0.8942/0.8825, sse=214461.6/213539.7, time step reduction 2 of 3 to 0.125  0 1 1    RMS
increased, rejecting step
rms = 0.8777/0.8825, sse=213155.6/213539.7, time step reduction 3 of 3 to 0.062  0 0 1
```

```
036: dt: 0.1250, sse=213155.6, rms=0.878 (0.546%)   maximum number
of reductions reached, breaking from loop positioning took 0.3
minutes   done positioning surface
Removing intersections
#ET# mris_place_surface  2.73 minutes


Writing output to ../surf/lh.white.preaparc #VMPC#
mris_place_surfaces VmPeak  2166108 mris_place_surface
done
@#@FSTIME  2024:04:13:12:01:23 mris_place_surface N 18 e 169.40 S 1.01 U 239.47 P 141% M 1866052 F 12 R 513141 W 0 c 340 w 418 I 1944 O 9136 L 2.19 2.33 2.28
@#@FSLOADPOST 2024:04:13:12:04:12 mris_place_surface N 18 2.41 2.37 2.30
#---------------------------------------------
### WhitePreAparc rh Sat Apr 13 12:04:12 UTC 2024
cd /home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --adgws-in ../surf/autodet.gw.stats.rh.dat --wm wm.mgz --threads 2 --invol brain.finalsurfs.mgz --rh --i ../surf/rh.orig --o ../surf/rh.white.preaparc --white --seg aseg.presurf.mgz --nsmooth 5
7.4.1
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed mris_place_surface --adgws-in ../surf/autodet.gw.stats.rh.dat --wm wm.mgz --threads 2 --invol brain.finalsurfs.mgz --rh --i ../surf/rh.orig --o
../surf/rh.white.preaparc --white --seg aseg.presurf.mgz --nsmooth 5

Reading in input surface ../surf/rh.orig
Smoothing surface before ripping with 5 iterations
Area    258516  0.26593  0.06319 0.000098   0.6244
Corner  775548 60.00000  9.60822 0.382660 178.6506
Edge    387774  0.78747  0.11467 0.049323   1.4034
Hinge   387774  6.31334  6.52209 0.000003 146.7832
Not reading in aparc
Reading in input volume brain.finalsurfs.mgz
Reading in seg volume aseg.presurf.mgz
Reading in wm volume wm.mgz
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 MRIfindBrightNonWM(): 995 bright
non-wm voxels segmented.
Masking bright non-wm for white surface
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0
#FML0# MRISripMidline(): nripped=0
#FML# MRISripMidline(): nmarked=7247, nmarked2=6, nripped=7247
Ripping segs (eq, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 MRISripSegs(): -2 2 0.5
ripped 0
vertex 64630: xyz = (12.1638,-10.7793,58.6019) oxyz = (12.1638,-10.7793,58.6019) wxzy = (12.1638,-10.7793,58.6019) pxyz = (0,0,0)
CBVO Creating mask 129260 n_averages 4
Iteration 0 ========================================= n_averages=4,
current_sigma=2
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0#
MRISripMidline(): nripped=7247
#FML# MRISripMid1ine(): nmarked=7247, nmarked2=6, nripped=7247
Ripping segs (eq, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing target border values Entering
MRIScomputeBorderValues_new():
    inside_hi      =  120.0000000;
border_hi         =  111.7612300;
border_low        =   68.0000000;
outside_low    =     56.9161340;
outside_hi        =  111.7612300;
sigma  = 2;   max_thickness = 10;
step_size=0.5;     STEP_SIZE=0.1;
which  = 1   thresh = 0.5   flags
= 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129260   Gdiag_no=-1
  vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=2 had to be increased for 90 vertices, nripped=7247
mean border=79.2, 15 (15) missing vertices, mean dist 0.3 [0.9 (%32.2)->0.9 (%67.8))] %51 local
maxima, %43 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0973 min


Finding expansion regions mean absolute
distance = 0.91 +- 1.13
3991 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5   parms->check_tol = 0,
niterations = 100
tol=1.0e-04, sigma=2.0, host=vm4--, nav=4, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000 desired_rms_height
0.000000 momentum 0.000000 nbhd_size 0 max_nbrs 0 niterations 100 nsurfaces 0 SURFACES 3 flags 0 (0) use curv 0 no sulc 0 no rigid align 0 mris->nsize 2
mris->hemisphere 1 randomSeed 0

000: dt: 0.0000, sse=3469613.8, rms=11.681
001: dt: 0.5000, sse=1929567.1, rms=8.575 (26.590%)
002: dt: 0.5000, sse=1208590.5, rms=6.634 (22.630%) 003: dt:
0.5000, sse=839055.5, rms=5.372 (19.035%)
004: dt: 0.5000, sse=643416.4, rms=4.559 (15.122%)
005: dt: 0.5000, sse=531977.3, rms=4.021 (11.798%)
006: dt: 0.5000, sse=477466.6, rms=3.723 (7.423%)
007: dt: 0.5000, sse=447023.2, rms=3.544 (4.794%)
008: dt: 0.5000, sse=433097.4, rms=3.455 (2.524%) 009: dt:
0.5000, sse=424356.9, rms=3.394 (1.751%)
rms = 3.3603/3.3942, sse=419971.0/424356.9, time step reduction 1 of 3 to 0.250  0 0 1
010: dt: 0.5000, sse=419971.0, rms=3.360 (0.999%)
011: dt: 0.2500, sse=269041.6, rms=2.241 (33.318%)
012: dt: 0.2500, sse=239223.5, rms=1.943 (13.283%) 013: dt:
0.2500, sse=233418.0, rms=1.879 (3.303%)
rms = 1.8294/1.8789, sse=229207.6/233418.0, time step reduction 2 of 3 to 0.125  0 0 1
014: dt: 0.2500, sse=229207.6, rms=1.829 (2.634%) 015: dt:
0.1250, sse=223695.3, rms=1.762 (3.703%)
rms = 1.7492/1.7616, sse=222778.2/223695.3, time step reduction 3 of 3 to 0.062  0 0 1
016: dt: 0.1250, sse=222778.2, rms=1.749 (0.704%)   maximum number
of reductions reached, breaking from loop positioning took 1.1
minutes   done positioning surface
Iteration 1 ========================================= n_averages=2,
current_sigma=1
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0#
MRISripMidline(): nripped=7247
#FML# MRISripMid1ine(): nmarked=7309, nmarked2=6, nripped=7309
Ripping segs (eq, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing   target   border   values   Entering
MRIScomputeBorderValues_new():    inside_hi    =
120.0000000;       border_hi     = 111.7612300;
border_low    =    68.0000000;    outside_low =
56.9161340;       outside_hi    =  111.7612300;
sigma   =   1;        max_thickness  =   10;
step_size=0.5;     STEP_SIZE=0.1;    which  = 1
thresh = 0.5    flags = 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129260   Gdiag_no=-1
  vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=1 had to be increased for 168 vertices, nripped=7309
mean border=82.9, 50 (1) missing vertices, mean dist -0.3 [0.5 (%72.6)->0.3 (%27.4))] %70 local
maxima, %24 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0662 min


Finding expansion regions mean absolute
distance = 0.44 +- 0.70
4098 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=1.0, host=vm4--, nav=2, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=873797.8, rms=5.260
017: dt: 0.5000, sse=488625.9, rms=3.441 (34.576%) 018: dt:
0.5000, sse=475315.0, rms=3.379 (1.807%)
rms = 3.3302/3.3792, sse=468048.6/475315.0, time step reduction 1 of 3 to 0.250  0 0 1
019: dt: 0.5000, sse=468048.6, rms=3.330 (1.451%)
020: dt: 0.2500, sse=298880.9, rms=2.018 (39.400%)
021: dt: 0.2500, sse=265032.4, rms=1.618 (19.818%)
022: dt: 0.2500, sse=258823.6, rms=1.547 (4.367%) 023: dt:
0.2500, sse=253773.3, rms=1.476 (4.588%)
rms = 1.4640/1.4765, sse=253650.7/253773.3, time step reduction 2 of 3 to 0.125  0 0 1
024: dt: 0.2500, sse=253650.7, rms=1.464 (0.843%) 025: dt:
0.1250, sse=248692.0, rms=1.394 (4.815%)
rms = 1.3873/1.3935, sse=248437.0/248692.0, time step reduction 3 of 3 to 0.062  0 0 1
026: dt: 0.1250, sse=248437.0, rms=1.387 (0.445%)   maximum number
of reductions reached, breaking from loop positioning took 0.6
minutes   done positioning surface
Iteration 2 ========================================= n_averages=1,
current_sigma=0.5
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0# MRISripMidline():
nripped=7309 removing 2 vertices from ripped group in thread:0 removing
4 vertices from ripped group in thread:0 removing 4 vertices from ripped
group in thread:0 removing 2 vertices from ripped group in thread:0
#FML# MRISripMidline(): nmarked=7344, nmarked2=6, nripped=7344
Ripping segs (eq, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing target border values Entering
MRIScomputeBorderValues_new():
    inside_hi      =  120.0000000;
border_hi         =  111.7612300;
```

```
border_low      =     68.0000000;
outside_low     =     56.9161340;
outside_hi      =    111.7612300;
sigma  =  0.5;    max_thickness  =
10;               step_size=0.5;
STEP_SIZE=0.1;          which  =  1
thresh  =   0.5       flags  =  0
CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129260      Gdiag_no=-1
vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=0.5 had to be increased for 267 vertices, nripped=7344
mean border=85.7, 78 (0) missing vertices, mean dist -0.2 [0.3 (%72.8)->0.2 (%27.2))] %84 local
maxima, %10 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0355 min


Finding expansion regions mean absolute
distance = 0.29 +- 0.41
3587 vertices more than 2 sigmas from mean.
Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0 Positioning
surface Entering MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5   parms->check_tol = 0,
niterations = 100
tol=1.0e-04, sigma=0.5, host=vm4--, nav=1, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=546043.1, rms=3.786 027: dt: 0.5000,
sse=413623.7, rms=2.958 (21.869%)
rms = 3.1711/2.9578, sse=440415.8/413623.7, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
028: dt: 0.2500, sse=296585.7, rms=2.008 (32.099%)
029: dt: 0.2500, sse=253084.1, rms=1.514 (24.623%) 030: dt:
0.2500, sse=242299.0, rms=1.366 (9.759%)
rms = 1.3355/1.3661, sse=241023.3/242299.0, time step reduction 2 of 3 to 0.125  0 0 1
031: dt: 0.2500, sse=241023.3, rms=1.335 (2.243%) 032: dt:
0.1250, sse=235544.2, rms=1.248 (6.547%)
rms = 1.2410/1.2480, sse=235180.9/235544.2, time step reduction 3 of 3 to 0.062  0 0 1
033: dt: 0.1250, sse=235181.0, rms=1.241 (0.561%)  maximum number
of reductions reached, breaking from loop positioning took 0.5
minutes   done positioning surface
Iteration 3 ========================================= n_averages=0,
current_sigma=0.25
Freezing midline and others
Ripping frozen voxels
INFO: rip surface needed but not specified, so using input surface
Freezing midline and others
Entering: MRISripMidline(): inhibiting deformation at non-cortical midline structures...
  which=1, fix_mtl=0, using annot = 0 #FML0# MRISripMidline():
nripped=7344 removing 3 vertices from ripped group in thread:0 removing
3 vertices from ripped group in thread:0 removing 2 vertices from ripped
group in thread:0 removing 3 vertices from ripped group in thread:0
removing 4 vertices from ripped group in thread:0 removing 4 vertices
from ripped group in thread:0 removing 4 vertices from ripped group in
thread:0 removing 2 vertices from ripped group in thread:0 #FML#
MRISripMidline(): nmarked=7346, nmarked2=6, nripped=7346
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 247 247 247 247
MRISripSegs(): -2 2 0.5 ripped 0
Computing target border values Entering
MRIScomputeBorderValues_new():
     inside_hi    =  120.0000000;
border_hi       =  111.7612300;
border_low      =     68.0000000;
outside_low     =     56.9161340;
outside_hi      =    111.7612300;
sigma  =  0.25;   max_thickness  =
10;               step_size=0.5;
STEP_SIZE=0.1;          which  =  1
thresh  =   0.5       flags  =  0
CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129260      Gdiag_no=-1
vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=0.25 had to be increased for 360 vertices, nripped=7346
mean border=86.6, 136 (0) missing vertices, mean dist -0.1 [0.2 (%56.7)->0.2 (%43.3))] %88 local
maxima, % 6 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0224 min


Finding expansion regions mean absolute
distance = 0.22 +- 0.32
2752 vertices more than 2 sigmas from mean.
Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0 Positioning
surface Entering MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5   parms->check_tol = 0,
niterations = 100
tol=1.0e-04, sigma=0.2, host=vm4--, nav=0, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=267468.9, rms=1.715
rms = 1.8545/1.7148, sse=283530.7/267468.9, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
034: dt: 0.2500, sse=231054.7, rms=1.198 (30.143%) 035: dt:
0.2500, sse=221662.1, rms=0.925 (22.802%)
rms = 0.9255/0.9248, sse=218200.1/221662.1, time step reduction 2 of 3 to 0.125  0 0 1    RMS
increased, rejecting step
rms = 0.9202/0.9248, sse=219947.7/221662.1, time step reduction 3 of 3 to 0.062  0 0 1
036: dt: 0.1250, sse=219947.7, rms=0.920 (0.489%)  maximum number
of reductions reached, breaking from loop positioning took 0.3
minutes   done positioning surface
Removing intersections
#ET# mris_place_surface  2.74 minutes


Writing output to ../surf/rh.white.preaparc #VMPC#
mris_place_surfaces VmPeak  2149664 mris_place_surface
done
@#@FSTIME  2024:04:13:12:04:12 mris_place_surface N 18 e 170.24 S 0.95 U 238.27 P 140% M 1849484 F 0 R 508935 W 0 c 367 w 404 I 0 O 9096 L 2.41 2.37 2.30
@#@FSLOADPOST 2024:04:13:12:07:02 mris_place_surface N 18 2.45 2.40 2.32
#---------------------------------------------@#@ CortexLabel lh Sat Apr 13 12:07:02 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mri_label2label --label-cortex ../surf/lh.white.preaparc
aseg.presurf.mgz 0 ../label/lh.cortex.label

 Generating cortex label... RemoveHipAmgy=0
 NucAccIsMedialWall=0  mris->useRealRAS=0 9
non-cortical segments detected only using
segment with 8371 vertices erasing segment 1
 (vno[0] = 75153) erasing segment 2 (vno[0] =
75197) erasing segment 3 (vno[0] = 75198)
erasing segment 4 (vno[0] = 77741) erasing
segment 5 (vno[0] = 79114) erasing segment 6
 (vno[0] = 79213) erasing segment 7 (vno[0] =
109220) erasing segment 8 (vno[0] = 124233)
@#@FSTIME  2024:04:13:12:07:03 mri_label2label N 5 e 10.55 S 0.18 U 10.64 P 102% M 329892 F 0 R 97491 W 0 c 11 w 6 I 0 O 10504 L 2.45 2.40 2.32 @#@FSLOADPOST 2024:04:13:12:07:13
mri_label2label N 5 2.38 2.39 2.31
#---------------------------------------------@#@ CortexLabel+HipAmyg lh Sat Apr 13 12:07:13 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mri_label2label --label-cortex ../surf/lh.white.preaparc aseg.presurf.mgz 1
../label/lh.cortex+hipamyg.label

 Generating cortex label... RemoveHipAmgy=1
 NucAccIsMedialWall=0  mris->useRealRAS=0 13
non-cortical segments detected only using
segment with 6472 vertices erasing segment 1
 (vno[0] = 40223) erasing segment 2 (vno[0] =
42982) erasing segment 3 (vno[0] = 43874)
erasing segment 4 (vno[0] = 71818) erasing
segment 5 (vno[0] = 75153) erasing segment 6
 (vno[0] = 75197) erasing segment 7 (vno[0] =
75198) erasing segment 8 (vno[0] = 77741)
erasing segment 9 (vno[0] = 79114) erasing
segment 10 (vno[0] = 79213) erasing segment
11 (vno[0] = 109220) erasing segment 12
 (vno[0] = 124233)
@#@FSTIME  2024:04:13:12:07:13 mri_label2label N 5 e 10.75 S 0.20 U 10.82 P 102% M 348352 F 0 R 102094 W 0 c 28 w 7 I 0 O 10656 L 2.38 2.39 2.31 @#@FSLOADPOST 2024:04:13:12:07:24
mri_label2label N 5 2.32 2.38 2.31
#---------------------------------------------@#@ CortexLabel rh Sat Apr 13 12:07:24 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mri_label2label --label-cortex ../surf/rh.white.preaparc
aseg.presurf.mgz 0 ../label/rh.cortex.label

 Generating cortex label... RemoveHipAmgy=0
 NucAccIsMedialWall=0  mris->useRealRAS=0 4
non-cortical segments detected only using
segment with 8287 vertices erasing segment 1
 (vno[0] = 78073) erasing segment 2 (vno[0] =
85972) erasing segment 3 (vno[0] = 119974)
@#@FSTIME  2024:04:13:12:07:24 mri_label2label N 5 e 9.94 S 0.20 U 9.99 P 102% M 306344 F 0 R 93660 W 0 c 21 w 7 I 0 O 10256 L 2.32 2.38 2.31
@#@FSLOADPOST 2024:04:13:12:07:34 mri_label2label N 5 2.27 2.36 2.31
#---------------------------------------------@#@ CortexLabel+HipAmyg rh Sat Apr 13 12:07:34 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mri_label2label --label-cortex ../surf/rh.white.preaparc aseg.presurf.mgz 1
../label/rh.cortex+hipamyg.label

 Generating cortex label... RemoveHipAmgy=1
 NucAccIsMedialWall=0  mris->useRealRAS=0 9
non-cortical segments detected only using
segment with 6336 vertices erasing segment 1
 (vno[0] = 43591) erasing segment 2 (vno[0] =
48704) erasing segment 3 (vno[0] = 51478)
erasing segment 4 (vno[0] = 78073) erasing
segment 5 (vno[0] = 85972) erasing segment 6
 (vno[0] = 111380) erasing segment 7 (vno[0]
= 118066) erasing segment 8 (vno[0] =
119974)
@#@FSTIME  2024:04:13:12:07:34 mri_label2label N 5 e 10.11 S 0.23 U 10.13 P 102% M 329092 F 0 R 99396 W 0 c 10 w 6 I 0 O 10416 L 2.27 2.36 2.31 @#@FSLOADPOST 2024:04:13:12:07:44
mri_label2label N 5 2.23 2.35 2.30
#---------------------------------------------@#@ Smooth2 lh Sat Apr 13 12:07:44 UTC 2024

/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_smooth -n 3 -nw -seed 1234
../surf/lh.white.preaparc ../surf/lh.smoothwm

smoothing for 3 iterations
setting seed for random number generator to 1234 smoothing surface
tessellation for 3 iterations...
smoothing complete - recomputing first and second fundamental forms...
@#@FSTIME  2024:04:13:12:07:44 mris_smooth N 7 e 2.42 S 0.13 U 2.54 P 110% M 199780 F 0 R 60242 W 0 c 9 w 7 I 0 O 9144 L 2.23 2.35 2.30 @#@FSLOADPOST 2024:04:13:12:07:46
mris_smooth N 7 2.21 2.34 2.30
#---------------------------------------------
@#@ Smooth2 rh Sat Apr 13 12:07:46 UTC 2024

/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_smooth -n 3 -nw -seed 1234
../surf/rh.white.preaparc ../surf/rh.smoothwm

smoothing for 3 iterations
setting seed for random number generator to 1234 smoothing surface tessellation
for 3 iterations... smoothing complete - recomputing first and second fundamental
forms...
@#@FSTIME  2024:04:13:12:07:46 mris_smooth N 7 e 2.35 S 0.13 U 2.46 P 110% M 198800 F 1 R 59939 W 0 c 7 w 7 I 0 O 9096 L 2.21 2.34 2.30 @#@FSLOADPOST 2024:04:13:12:07:49
mris_smooth N 7 2.21 2.34 2.30
#---------------------------------------------
```

```
## Inflation2 lh Sat Apr 13 12:07:49 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_inflate
../surf/lh.smoothwm ../surf/lh.inflated

Reading ../surf/lh.smoothwm
avg radius = 46.0 mm, total surface area = 80428 mm^2
step 060: RMS=0.018 (target=0.015)   writing inflated surface to ../surf/lh.inflated writing sulcal
depths to ../surf/lh.sulc

inflation complete.
inflation took 0.2 minutes mris_inflate
utimesec         19.783632  mris_inflate
stimesec         0.115974  mris_inflate
ru_maxrss   200872 mris_inflate ru_ixrss
0   mris_inflate   ru_idrss             0
mris_inflate ru_isrss     0 mris_inflate
ru_minflt   53804 mris_inflate ru_majflt
1   mris_inflate   ru_nswap             0
mris_inflate     ru_inblock         184
mris_inflate     ru_oublock       10160
mris_inflate ru_msgsnd     0 mris_inflate
ru_msgrcv     0 mris_inflate ru_nsignals 0
mris_inflate   ru_nvcsw           233
mris_inflate ru_nivcsw   42
@#@FSTIME  2024:04:13:12:07:49 mris_inflate N 2 e 12.57 S 0.13 U 19.78 P 158% M 201128 F 1 R 53811 W 0 c 42 w 234 I 184 O 10160 L 2.21 2.34 2.30 @#@FSLOADPOST 2024:04:13:12:08:01
mris_inflate N 2 2.31 2.36 2.31
#---------------------------------------------
## Inflation2 rh Sat Apr 13 12:08:01 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_inflate
../surf/rh.smoothwm ../surf/rh.inflated

Reading ../surf/rh.smoothwm
avg radius = 46.4 mm, total surface area = 80569 mm^2
step 060: RMS=0.019 (target=0.015)   writing inflated surface to ../surf/rh.inflated writing sulcal
depths to ../surf/rh.sulc

inflation complete.
inflation took 0.2 minutes mris_inflate
utimesec         19.717525  mris_inflate
stimesec         1.068082  mris_inflate
ru_maxrss   199180 mris_inflate ru_ixrss
0   mris_inflate   ru_idrss             0
mris_inflate ru_isrss     0 mris_inflate
ru_minflt       501103   mris_inflate
ru_majflt   0 mris_inflate ru_nswap    0
mris_inflate ru_inblock   0 mris_inflate
ru_oublock  10112 mris_inflate ru_msgsnd
0   mris_inflate   ru_msgrcv            0
mris_inflate ru_nsignals 0 mris_inflate
ru_nvcsw     248 mris_inflate ru_nivcsw
78
@#@FSTIME  2024:04:13:12:08:01 mris_inflate N 2 e 13.29 S 1.07 U 19.71 P 156% M 199180 F 0 R 501108 W 0 c 78 w 249 I 0 O 10112 L 2.31 2.36 2.31
@#@FSLOADPOST 2024:04:13:12:08:15 mris_inflate N 2 2.34 2.36 2.31
#---------------------------------------------
## Curv .H and .K lh Sat Apr 13 12:08:15 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/surf  mris_curvature -w
-seed 1234 lh.white.preaparc

setting seed for random number generator to 1234 total integrated curvature =
3.895*4pi (48.944) --> -3 handles ICI = 153.4, FI = 1458.8, variation=23521.877
writing Gaussian curvature to ./lh.white.preaparc.K...done. writing mean
curvature to ./lh.white.preaparc.H...mris_curvature done.
@#@FSTIME  2024:04:13:12:08:15 mris_curvature N 4 e 1.32 S 0.09 U 1.34 P 108% M 148804 F 8 R 40720 W 0 c 4 w 10 I 936 O 2032 L 2.34 2.36 2.31
@#@FSLOADPOST 2024:04:13:12:08:16 mris_curvature N 4 2.31 2.36 2.31 rm -f lh.white.H ln -s
lh.white.preaparc.H lh.white.H rm -f lh.white.K ln -s lh.white.preaparc.K lh.white.K

 mris_curvature -seed 1234 -thresh .999 -n -a 5 -w -distances 10 10 lh.inflated

setting seed for random number generator to 1234
normalizing curvature values. averaging curvature
patterns 5 times.
sampling 10 neighbors out to a distance of 10 mm
221 vertices thresholded to be in k1 ~ [-0.20 0.40], k2 ~ [-0.10 0.04] total integrated
curvature = 0.703*4pi (8.829) --> 0 handles
ICI = 1.6, FI = 8.9, variation=154.651 127 vertices
thresholded to be in [-0.01 0.02]
writing Gaussian curvature to ./lh.inflated.K...thresholding curvature at 99.90% level curvature
mean = 0.000, std = 0.001 152 vertices thresholded to be in [-0.12 0.18] done. writing mean
curvature to ./lh.inflated.H...curvature mean = -0.016, std = 0.022 mris_curvature done.
@#@FSTIME  2024:04:13:12:08:16 mris_curvature N 12 e 41.00 S 0.21 U 40.98 P 100% M 352056 F 0 R 91625 W 0 c 122 w 6 I 0 O 2032 L 2.31 2.36 2.31
@#@FSLOADPOST 2024:04:13:12:08:57 mris_curvature N 12 2.16 2.31 2.29
#---------------------------------------------
## Curv .H and .K rh Sat Apr 13 12:08:57 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/surf  mris_curvature -w
-seed 1234 rh.white.preaparc

setting seed for random number generator to 1234 total integrated curvature =
9.091*4pi (114.237) --> -8 handles ICI = 156.3, FI = 1420.7, variation=23062.513
writing Gaussian curvature to ./rh.white.preaparc.K...done. writing mean
curvature to ./rh.white.preaparc.H...mris_curvature done.
@#@FSTIME  2024:04:13:12:08:57 mris_curvature N 4 e 1.28 S 0.09 U 1.30 P 108% M 148368 F 0 R 40549 W 0 c 4 w 4 I 0 O 2032 L 2.16 2.31 2.29
@#@FSLOADPOST 2024:04:13:12:08:58 mris_curvature N 4 2.16 2.31 2.29 rm -f rh.white.H ln -s
rh.white.preaparc.H rh.white.H rm -f rh.white.K ln -s rh.white.preaparc.K rh.white.K

 mris_curvature -seed 1234 -thresh .999 -n -a 5 -w -distances 10 10 rh.inflated

setting seed for random number generator to 1234
normalizing curvature values. averaging curvature
patterns 5 times. sampling 10 neighbors out to a
distance of 10 mm
147 vertices thresholded to be in k1 ~ [-0.29 4.36], k2 ~ [-0.21 0.05] total integrated
curvature = 0.655*4pi (8.230) --> 0 handles
ICI = 1.5, FI = 9.1, variation=155.941 95 vertices
thresholded to be in [-0.01 0.03]
writing Gaussian curvature to ./rh.inflated.K...thresholding curvature at 99.90% level curvature
mean = 0.000, std = 0.001 101 vertices thresholded to be in [-0.18 0.91] done. writing mean
curvature to ./rh.inflated.H...curvature mean = -0.016, std = 0.023 mris_curvature done.
@#@FSTIME  2024:04:13:12:08:59 mris_curvature N 12 e 40.74 S 0.26 U 40.67 P 100% M 350412 F 0 R 91168 W 0 c 104 w 5 I 0 O 2032 L 2.16 2.31 2.29 @#@FSLOADPOST 2024:04:13:12:09:39
mris_curvature N 12 2.08 2.27 2.28
#---------------------------------------------## Sphere lh Sat Apr 13
12:09:39 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts
mris_sphere -seed 1234 ../surf/lh.inflated ../surf/lh.sphere

setting seed for random number genererator to 1234 version:
7.4.1 available threads: 2 reading original vertex
positions...
projecting onto sphere...
surface projected - minimizing metric distortion...
scaling brain by 0.293... MRISunfold()
max_passes = 1 -------
tol=5.0e-01, sigma=0.0, host=vm4--, nav=1024, nbrs=2, l_area=1.000, l_dist=1.000 using
quadratic fit line minimization complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0
ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 1.000000
desired_rms_height -1.000000 momentum 0.900000 nbhd_size 7 max_nbrs 8 niterations 25
nsurfaces 0 SURFACES 3 flags 0 (0) use curv 0 no sulc 0 no rigid align 0 mris->nsize 2
mris->hemisphere 0 randomSeed 1234

singular matrix in quadratic form
------------------  mrisRemoveNegativeArea()
pass 1: epoch 1 of 3 starting distance error %19.25 pass 1:
epoch 2 of 3 starting distance error %19.25 unfolding
complete - removing small folds... starting distance error
%19.24 removing remaining folds... final distance error
%19.24 MRISunfold() return, current seed 1234
-01: dt=0.0000, 122 negative triangles  VmPeak 577040
096: dt=0.9900, 122 negative triangles
097: dt=0.9900,  40 negative triangles
098: dt=0.9900,  20 negative triangles
099: dt=0.9900,  14 negative triangles
100: dt=0.9900,   9 negative triangles
101: dt=0.9900,  11 negative triangles
102: dt=0.9900,   9 negative triangles
103: dt=0.9900,   9 negative triangles
104: dt=0.9900,   6 negative triangles
105: dt=0.9900,   4 negative triangles
106: dt=0.9900,   1 negative triangles 107: dt=0.9900,
2 negative triangles writing spherical brain to
../surf/lh.sphere spherical transformation took 0.0568
hours FSRUNTIME@ mris_sphere  0.0568 hours 2 threads
#VMPC# mris_sphere VmPeak  577040 mris_sphere done
@#@FSTIME  2024:04:13:12:09:39 mris_sphere N 4 e 204.58 S 14.25 U 359.65 P 182% M 267312 F 0 R 6845915 W 0 c 909 w 2101 I 0 O 9144 L 2.08 2.27 2.28
@#@FSLOADPOST 2024:04:13:12:13:04 mris_sphere N 4 3.26 2.71 2.44
#---------------------------------------------
### Sphere rh Sat Apr 13 12:13:04 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_sphere -seed
1234 ../surf/rh.inflated ../surf/rh.sphere

setting seed for random number genererator to 1234 version:
7.4.1 available threads: 2 reading original vertex
positions... projecting onto sphere...
surface projected - minimizing metric distortion...
scaling brain by 0.295... MRISunfold()
max_passes = 1 -------
tol=5.0e-01, sigma=0.0, host=vm4--, nav=1024, nbrs=2, l_area=1.000, l_dist=1.000 using
quadratic fit line minimization complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0
ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 1.000000
desired_rms_height -1.000000 momentum 0.900000 nbhd_size 7 max_nbrs 8 niterations 25
nsurfaces 0 SURFACES 3 flags 0 (0) use curv 0 no sulc 0 no rigid align 0 mris->nsize 2
mris->hemisphere 1 randomSeed 1234

singular matrix in quadratic form singular
matrix in quadratic form singular matrix in
quadratic form singular matrix in quadratic form
singular matrix in quadratic form
------------------  mrisRemoveNegativeArea()
pass 1: epoch 1 of 3 starting distance error %20.05 pass 1:
epoch 2 of 3 starting distance error %20.03 unfolding
complete - removing small folds... starting distance error
%20.00 removing remaining folds... final distance error
%20.03 MRISunfold() return, current seed 1234
-01: dt=0.0000,  19 negative triangles  VmPeak 575832
167: dt=0.9900,  19 negative triangles
168: dt=0.9900,   9 negative triangles
169: dt=0.9900,  12 negative triangles
170: dt=0.9900,   9 negative triangles
171: dt=0.9900,   9 negative triangles
172: dt=0.9900,   8 negative triangles
173: dt=0.9900,  12 negative triangles
174: dt=0.9900,   8 negative triangles
175: dt=0.9900,   8 negative triangles
176: dt=0.9900,   8 negative triangles
177: dt=0.9900,   7 negative triangles
178: dt=0.9900,   9 negative triangles
179: dt=0.9900,   7 negative triangles
```

```
180: dt=0.9900,   8 negative triangles
181: dt=0.9900,   8 negative triangles
182: dt=0.9900,   9 negative triangles
183: dt=0.9900,   7 negative triangles
184: dt=0.9900,   9 negative triangles
185: dt=0.9900,   8 negative triangles
186: dt=0.9900,   9 negative triangles
187: dt=0.9405,   7 negative triangles
188: dt=0.9405,   9 negative triangles
189: dt=0.9405,   8 negative triangles
190: dt=0.9405,   9 negative triangles
191: dt=0.9405,   7 negative triangles
192: dt=0.9405,   9 negative triangles
193: dt=0.9405,   7 negative triangles
194: dt=0.9405,  10 negative triangles
195: dt=0.9405,   7 negative triangles
196: dt=0.9405,   9 negative triangles
197: dt=0.8935,   7 negative triangles
198: dt=0.8935,   9 negative triangles
199: dt=0.8935,   8 negative triangles
200: dt=0.8935,   9 negative triangles
201: dt=0.8935,   7 negative triangles
202: dt=0.8935,   9 negative triangles
203: dt=0.8935,   7 negative triangles
204: dt=0.8935,  10 negative triangles
205: dt=0.8935,   7 negative triangles
206: dt=0.8935,   9 negative triangles
207: dt=0.8488,   7 negative triangles
208: dt=0.8488,  10 negative triangles
209: dt=0.8488,   7 negative triangles
210: dt=0.8488,   9 negative triangles
211: dt=0.8488,   7 negative triangles
212: dt=0.8488,  10 negative triangles
213: dt=0.8488,   7 negative triangles
214: dt=0.8488,   9 negative triangles
215: dt=0.8488,   7 negative triangles
216: dt=0.8488,   9 negative triangles
217: dt=0.8488,   6 negative triangles
218: dt=0.8488,   9 negative triangles
219: dt=0.8488,   6 negative triangles
220: dt=0.8488,   8 negative triangles
221: dt=0.8488,   6 negative triangles
222: dt=0.8488,   8 negative triangles
223: dt=0.8488,   6 negative triangles
224: dt=0.8488,   8 negative triangles
225: dt=0.8488,   5 negative triangles
226: dt=0.8488,   6 negative triangles
227: dt=0.8488,   4 negative triangles
228: dt=0.8488,   6 negative triangles
229: dt=0.8488,   4 negative triangles
230: dt=0.8488,   6 negative triangles
231: dt=0.8488,   4 negative triangles
232: dt=0.8488,   7 negative triangles
233: dt=0.8488,   4 negative triangles
234: dt=0.8488,   5 negative triangles
235: dt=0.8488,   3 negative triangles
236: dt=0.8488,   5 negative triangles
237: dt=0.8488,   3 negative triangles
238: dt=0.8488,   5 negative triangles
239: dt=0.8488,   3 negative triangles
240: dt=0.8488,   5 negative triangles
241: dt=0.8488,   3 negative triangles
242: dt=0.8488,   5 negative triangles
243: dt=0.8488,   5 negative triangles
244: dt=0.8488,   4 negative triangles
245: dt=0.8064,   3 negative triangles
246: dt=0.8064,   3 negative triangles
247: dt=0.8064,   5 negative triangles
248: dt=0.8064,   3 negative triangles
249: dt=0.8064,   3 negative triangles
250: dt=0.8064,   5 negative triangles
251: dt=0.8064,   3 negative triangles
252: dt=0.8064,   3 negative triangles
253: dt=0.8064,   5 negative triangles
254: dt=0.8064,   3 negative triangles
255: dt=0.7660,   3 negative triangles
256: dt=0.7660,   5 negative triangles
257: dt=0.7660,   3 negative triangles
258: dt=0.7660,   3 negative triangles
259: dt=0.7660,   5 negative triangles
260: dt=0.7660,   3 negative triangles
261: dt=0.7660,   3 negative triangles
262: dt=0.7660,   5 negative triangles
263: dt=0.7660,   3 negative triangles
264: dt=0.7660,   3 negative triangles
265: dt=0.7277,   5 negative triangles
266: dt=0.7277,   3 negative triangles
267: dt=0.7277,   3 negative triangles
268: dt=0.7277,   5 negative triangles
269: dt=0.7277,   3 negative triangles
270: dt=0.7277,   3 negative triangles
271: dt=0.7277,   5 negative triangles
272: dt=0.7277,   3 negative triangles
273: dt=0.7277,   3 negative triangles
274: dt=0.7277,   5 negative triangles
275: dt=0.6914,   3 negative triangles
276: dt=0.6914,   3 negative triangles
277: dt=0.6914,   5 negative triangles
278: dt=0.6914,   3 negative triangles
279: dt=0.6914,   3 negative triangles
280: dt=0.6914,   2 negative triangles
281: dt=0.6914,   5 negative triangles
282: dt=0.6914,   2 negative triangles
283: dt=0.6914,   2 negative triangles
284: dt=0.6914,   2 negative triangles
285: dt=0.6914,   4 negative triangles
286: dt=0.6914,   2 negative triangles
287: dt=0.6914,   2 negative triangles
288: dt=0.6914,   2 negative triangles
289: dt=0.6914,   2 negative triangles
290: dt=0.6568,   2 negative triangles
291: dt=0.6568,   2 negative triangles
292: dt=0.6568,   2 negative triangles
293: dt=0.6568,   2 negative triangles
294: dt=0.6568,   2 negative triangles
295: dt=0.6568,   2 negative triangles
296: dt=0.6568,   2 negative triangles
297: dt=0.6568,   2 negative triangles
298: dt=0.6568,   2 negative triangles
299: dt=0.6568,   2 negative triangles
300: dt=0.6239,   2 negative triangles
301: dt=0.6239,   2 negative triangles
302: dt=0.6239,   2 negative triangles
303: dt=0.6239,   2 negative triangles
304: dt=0.6239,   2 negative triangles
305: dt=0.6239,   2 negative triangles
306: dt=0.6239,   2 negative triangles
307: dt=0.6239,   2 negative triangles
308: dt=0.6239,   2 negative triangles
309: dt=0.6239,   2 negative triangles
310: dt=0.5927,   2 negative triangles
311: dt=0.5927,   2 negative triangles 312:
dt=0.5927,   2 negative triangles expanding nbhd
size to 1
313: dt=0.9900,   2 negative triangles
314: dt=0.9900,   1 negative triangles
315: dt=0.9900,   3 negative triangles
316: dt=0.9900,   3 negative triangles
317: dt=0.9900,   3 negative triangles
318: dt=0.9900,   3 negative triangles
319: dt=0.9900,   3 negative triangles
320: dt=0.9900,   3 negative triangles
321: dt=0.9900,   3 negative triangles
322: dt=0.9900,   3 negative triangles
323: dt=0.9900,   3 negative triangles
324: dt=0.9405,   3 negative triangles
325: dt=0.9405,   3 negative triangles
326: dt=0.9405,   3 negative triangles
327: dt=0.9405,   3 negative triangles
328: dt=0.9405,   3 negative triangles
329: dt=0.9405,   3 negative triangles
330: dt=0.9405,   3 negative triangles
331: dt=0.9405,   3 negative triangles
332: dt=0.9405,   3 negative triangles
333: dt=0.9405,   3 negative triangles
334: dt=0.8935,   3 negative triangles
335: dt=0.8935,   3 negative triangles
336: dt=0.8935,   3 negative triangles
337: dt=0.8935,   2 negative triangles
338: dt=0.8935,   2 negative triangles
339: dt=0.8935,   2 negative triangles
340: dt=0.8935,   2 negative triangles
341: dt=0.8935,   2 negative triangles
342: dt=0.8935,   2 negative triangles
343: dt=0.8935,   2 negative triangles
344: dt=0.8488,   2 negative triangles
345: dt=0.8488,   2 negative triangles
346: dt=0.8488,   2 negative triangles
347: dt=0.8488,   2 negative triangles
348: dt=0.8488,   2 negative triangles
349: dt=0.8488,   2 negative triangles
350: dt=0.8488,   1 negative triangles 351: dt=0.8488,
1 negative triangles writing spherical brain to
../surf/rh.sphere spherical transformation took 0.0922
hours FSRUNTIME@ mris_sphere  0.0922 hours 2 threads
#VMPC# mris_sphere VmPeak  575832 mris_sphere done
##@FSTIME  2024:04:13:12:13:04 mris_sphere N 4 e 332.08 S 30.60 U 576.85 P 182% M 266368 F 0 R 14628890 W 0 c 1407 w 4064 I 0 O 9096 L 3.26 2.71 2.44
##@FSLOADPOST 2024:04:13:12:18:36 mris_sphere N 4 3.57 3.19 2.74
#-----------------------------------------
## Surf Reg lh Sat Apr 13 12:18:36 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_register -curv ../surf/lh.sphere

/usr/local/freesurfer/7.4.1/average/lh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif ../surf/lh.sphere.reg using smoothwm curvature for final alignment

cwd /home/jaibhatoa/mri_processed/014_S_4401/scripts cmdline mris_register -curv ../surf/lh.sphere
/usr/local/freesurfer/7.4.1/average/lh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif ../surf/lh.sphere.reg

0 inflated.H
1 sulc
2 smoothwm (computed)
7.4.1   7.4.1 reading surface from
../surf/lh.sphere...
reading template parameterization from /usr/local/freesurfer/7.4.1/average/lh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif... MRISregister()
------max_passes = 4 min_degrees = 0.500000 max_degrees = 64.000000 nangles = 8 tol=5.0e-01, sigma=0.0, host=vm4--, nav=1024, nbrs=1,
l_extern=10000.000, l_parea=0.200, l_nlarea=1.000, l_corr=1.000, l_dist=5.000 using quadratic fit line minimization complete_dist_mat 0 rms 0
smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000 desired_rms_height -1.000000 momentum
0.950000 nbhd_size -10 max_nbrs 10 niterations 25 nsurfaces 0 SURFACES 3 flags 16 (10) use curv 16 no sulc 0 no rigid align 0 mris->nsize 1
mris->hemisphere 0 randomSeed 0
```

```
tol=5.0e-01, sigma=0.0, host=vm4--, nav=1024, nbrs=1, l_extern=10000.000, l_parea=0.200, l_nlarea=1.000, l_corr=1.000, l_dist=5.000 using quadratic fit line
minimization
-----------------1
Reading lh.sulc
tol=1.0e+00, sigma=0.5, host=vm4--, nav=1024, nbrs=1, l_extern=10000.000, l_parea=0.200, l_nlarea=1.000, l_corr=0.050, l_spring=0.500, l_dist=5.000 using quadratic fit
line minimization curvature mean = 0.000, std = 5.527 curvature mean = 0.032, std = 0.822 curvature mean = 0.015, std = 0.870 Starting MRISrigidBodyAlignGlobal()
Starting new MRISrigidBodyAlignGlobal_findMinSSE()
  new MRISrigidBodyAlignGlobal_findMinSSE min @ (1.50, -6.50, 4.50) sse = 193304.1, elapsed since starting=0.1542 min
MRISrigidBodyAlignGlobal() done   0.15 min
curvature mean = 0.012, std = 0.834 curvature mean
= 0.007, std = 0.950 curvature mean = 0.009, std =
0.844 curvature mean = 0.003, std = 0.980 curvature
mean = 0.008, std = 0.846 curvature mean = 0.001,
std = 0.992
2 Reading smoothwm curvature mean = -0.016,
std = 0.274 curvature mean = 0.042, std =
0.251 curvature mean = 0.061, std = 0.349
curvature mean = 0.040, std = 0.309
curvature mean = 0.031, std = 0.548
curvature mean = 0.039, std = 0.337
curvature mean = 0.016, std = 0.689
curvature mean = 0.038, std = 0.350
curvature mean = 0.004, std = 0.800
MRISregister() return, current seed 0
-01: dt=0.0000,   1 negative triangles  VmPeak 571960
103: dt=0.9900,   1 negative triangles expanding nbhd
size to 1
104: dt=0.9900,   1 negative triangles
105: dt=0.9900,   1 negative triangles
106: dt=0.9900,   1 negative triangles 107: dt=0.9900,   1
negative triangles writing registered surface to
../surf/lh.sphere.reg... registration took 0.06 hours #VMPC#
mris_register VmPeak  571960
FSRUNTIME@ mris_register  0.0646 hours 2 threads
@#@FSTIME  2024:04:13:12:18:36 mris_register N 4 e 232.58 S 14.36 U 379.32 P 169% M 252580 F 17 R 7006805 W 0 c 853 w 3398 I 7832 O 9144 L 3.57 3.19 2.74
@#@FSLOADPOST 2024:04:13:12:22:29 mris_register N 4 3.24 3.28 2.90  ln -sf

lh.sphere.reg lh.fsaverage.sphere.reg

#--------------------------------------------
### Surf Reg rh Sat Apr 13 12:22:29 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_register -curv ../surf/rh.sphere

/usr/local/freesurfer/7.4.1/average/rh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif ../surf/rh.sphere.reg using smoothwm curvature for final alignment

cwd /home/jaibhatoa/mri_processed/014_S_4401/scripts cmdline mris_register -curv ../surf/rh.sphere
/usr/local/freesurfer/7.4.1/average/rh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif ../surf/rh.sphere.reg

0 inflated.H
1 sulc
2 smoothwm (computed)
7.4.1   7.4.1 reading surface from ../surf/rh.sphere... reading template parameterization from
/usr/local/freesurfer/7.4.1/average/rh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif... MRISregister() ------max_passes = 4 min_degrees =
0.500000 max_degrees = 64.000000 nangles = 8
tol=5.0e-01, sigma=0.0, host=vm4--, nav=1024, nbrs=1, l_extern=10000.000, l_parea=0.200, l_nlarea=1.000, l_corr=1.000, l_dist=5.000 using quadratic fit
line minimization complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000
desired_rms_height -1.000000 momentum 0.950000 nbhd_size -10 max_nbrs 10 niterations 25 nsurfaces 0 SURFACES 3 flags 16 (10) use curv 16 no sulc 0 no
rigid align 0 mris->nsize 1 mris->hemisphere 1 randomSeed 0

tol=5.0e-01, sigma=0.0, host=vm4--, nav=1024, nbrs=1, l_extern=10000.000, l_parea=0.200, l_nlarea=1.000, l_corr=1.000, l_dist=5.000 using quadratic fit line
minimization
-----------------1
Reading rh.sulc
tol=1.0e+00, sigma=0.5, host=vm4--, nav=1024, nbrs=1, l_extern=10000.000, l_parea=0.200, l_nlarea=1.000, l_corr=0.050, l_spring=0.500, l_dist=5.000 using quadratic fit
line minimization curvature mean = -0.000, std = 5.586 curvature mean = 0.052, std = 0.819 curvature mean = 0.011, std = 0.873 Starting MRISrigidBodyAlignGlobal()
Starting new MRISrigidBodyAlignGlobal_findMinSSE()
  new MRISrigidBodyAlignGlobal_findMinSSE min @ (6.50, -6.00, 6.50) sse = 257710.6, elapsed since starting=0.1478 min
MRISrigidBodyAlignGlobal() done   0.15 min
curvature mean = 0.035, std = 0.833 curvature mean
= 0.004, std = 0.953 curvature mean = 0.031, std =
0.843 curvature mean = 0.002, std = 0.982 curvature
mean = 0.031, std = 0.846 curvature mean = 0.000,
std = 0.993
2 Reading smoothwm curvature mean = -0.017,
std = 0.270 curvature mean = 0.043, std =
0.245 curvature mean = 0.054, std = 0.367
curvature mean = 0.036, std = 0.304
curvature mean = 0.029, std = 0.559
curvature mean = 0.035, std = 0.331
curvature mean = 0.015, std = 0.699
curvature mean = 0.035, std = 0.343
curvature mean = 0.004, std = 0.808
MRISregister() return, current seed 0
-01: dt=0.0000,  14 negative triangles  VmPeak 572216
111: dt=0.9900,  14 negative triangles
112: dt=0.9900,  13 negative triangles
113: dt=0.9900,  11 negative triangles
114: dt=0.9900,  11 negative triangles
115: dt=0.9900,  12 negative triangles
116: dt=0.9900,  10 negative triangles
117: dt=0.9900,  10 negative triangles
118: dt=0.9900,  11 negative triangles
119: dt=0.9900,  10 negative triangles
120: dt=0.9900,  11 negative triangles
121: dt=0.9900,  11 negative triangles
122: dt=0.9900,  11 negative triangles
123: dt=0.9900,  11 negative triangles
124: dt=0.9900,  11 negative triangles
125: dt=0.9900,  11 negative triangles
126: dt=0.9405,  11 negative triangles
127: dt=0.9405,  11 negative triangles
128: dt=0.9405,  12 negative triangles
129: dt=0.9405,  11 negative triangles
130: dt=0.9405,  10 negative triangles
131: dt=0.9405,   9 negative triangles
132: dt=0.9405,   9 negative triangles
133: dt=0.9405,   9 negative triangles
134: dt=0.9405,   9 negative triangles
135: dt=0.9405,   9 negative triangles
136: dt=0.9405,   9 negative triangles
137: dt=0.9405,   9 negative triangles
138: dt=0.9405,   9 negative triangles
139: dt=0.9405,   9 negative triangles
140: dt=0.9405,   8 negative triangles
141: dt=0.9405,   8 negative triangles
142: dt=0.9405,   8 negative triangles
143: dt=0.9405,   8 negative triangles
144: dt=0.9405,   8 negative triangles
145: dt=0.9405,   8 negative triangles
146: dt=0.9405,   8 negative triangles
147: dt=0.9405,   8 negative triangles
148: dt=0.9405,   8 negative triangles
149: dt=0.9405,   8 negative triangles
150: dt=0.8935,   8 negative triangles
151: dt=0.8935,   9 negative triangles
152: dt=0.8935,   8 negative triangles
153: dt=0.8935,   6 negative triangles
154: dt=0.8935,   4 negative triangles
155: dt=0.8935,   6 negative triangles
156: dt=0.8935,   4 negative triangles
157: dt=0.8935,   6 negative triangles
158: dt=0.8935,   4 negative triangles
159: dt=0.8935,   5 negative triangles
160: dt=0.8935,   2 negative triangles
161: dt=0.8935,   4 negative triangles
162: dt=0.8935,   2 negative triangles
163: dt=0.8935,   4 negative triangles
164: dt=0.8935,   2 negative triangles
165: dt=0.8935,   2 negative triangles
166: dt=0.8935,   4 negative triangles
167: dt=0.8935,   2 negative triangles
168: dt=0.8935,   2 negative triangles
169: dt=0.8935,   2 negative triangles
170: dt=0.8488,   2 negative triangles
171: dt=0.8488,   4 negative triangles
172: dt=0.8488,   2 negative triangles
173: dt=0.8488,   2 negative triangles
174: dt=0.8488,   1 negative triangles 175: dt=0.8488,   1
negative triangles writing registered surface to
../surf/rh.sphere.reg...
registration took 0.07 hours #VMPC#
mris_register VmPeak  572216
FSRUNTIME@ mris_register  0.0736 hours 2 threads
@#@FSTIME  2024:04:13:12:22:29 mris_register N 4 e 265.00 S 17.53 U 433.21 P 170% M 252904 F 0 R 8349497 W 0 c 984 w 3841 I 5584 O 9096 L 3.24 3.28 2.90
@#@FSLOADPOST 2024:04:13:12:26:54 mris_register N 4 3.10 3.23 2.99  ln -sf

rh.sphere.reg rh.fsaverage.sphere.reg

#--------------------------------------------
### Jacobian white lh Sat Apr 13 12:26:54 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts

mris_jacobian ../surf/lh.white.preaparc ../surf/lh.sphere.reg ../surf/lh.jacobian_white

reading surface from ../surf/lh.white.preaparc... writing
curvature file ../surf/lh.jacobian_white
@#@FSTIME  2024:04:13:12:26:54 mris_jacobian N 3 e 0.74 S 0.15 U 0.83 P 132% M 199292 F 4 R 60198 W 0 c 7 w 11 I 616 O 1016 L 3.10 3.23 2.99
@#@FSLOADPOST 2024:04:13:12:26:54 mris_jacobian N 3 3.10 3.23 2.99
#--------------------------------------------
### Jacobian white rh Sat Apr 13 12:26:54 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts

mris_jacobian ../surf/rh.white.preaparc ../surf/rh.sphere.reg ../surf/rh.jacobian_white

reading surface from ../surf/rh.white.preaparc... writing
curvature file ../surf/rh.jacobian_white
@#@FSTIME  2024:04:13:12:26:54 mris_jacobian N 3 e 0.69 S 0.12 U 0.79 P 132% M 198476 F 0 R 59924 W 0 c 8 w 6 I 0 O 1016 L 3.10 3.23 2.99
@#@FSLOADPOST 2024:04:13:12:26:55 mris_jacobian N 3 3.10 3.23 2.99
#--------------------------------------------
### AvgCurv lh Sat Apr 13 12:26:55 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mrisp_paint -a 5

/usr/local/freesurfer/7.4.1/average/lh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif#6 ../surf/lh.sphere.reg ../surf/lh.avg_curv

averaging curvature patterns 5 times... reading
surface from ../surf/lh.sphere.reg...
reading template parameterization from /usr/local/freesurfer/7.4.1/average/lh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif...
writing curvature file to ../surf/lh.avg_curv...
@#@FSTIME  2024:04:13:12:26:55 mrisp_paint N 5 e 0.62 S 0.12 U 0.62 P 120% M 153916 F 7 R 41992 W 0 c 3 w 10 I 1096 O 1016 L 3.10 3.23 2.99
@#@FSLOADPOST 2024:04:13:12:26:56 mrisp_paint N 5 3.10 3.23 2.99
#--------------------------------------------
### AvgCurv rh Sat Apr 13 12:26:56 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mrisp_paint -a 5

/usr/local/freesurfer/7.4.1/average/rh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif#6 ../surf/rh.sphere.reg ../surf/rh.avg_curv

averaging curvature patterns 5 times...
reading surface from ../surf/rh.sphere.reg...
reading template parameterization from /usr/local/freesurfer/7.4.1/average/rh.folding.atlas.acfb40.noaparc.i12.2016-08-02.tif... writing curvature file to
../surf/rh.avg_curv...
@#@FSTIME  2024:04:13:12:26:56 mrisp_paint N 5 e 0.61 S 0.08 U 0.65 P 121% M 153100 F 0 R 41803 W 0 c 11 w 5 I 0 O 1016 L 3.10 3.23 2.99
@#@FSLOADPOST 2024:04:13:12:26:56 mrisp_paint N 5 3.10 3.23 2.99
#--------------------------------------------
### Cortical Parc lh Sat Apr 13 12:26:56 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_ca_label -l ../label/lh.cortex.label -aseg ../mri/aseg.presurf.mgz -seed 1234 014_S_4401 lh ../surf/lh.sphere.reg

/usr/local/freesurfer/7.4.1/average/lh.DKaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs ../label/lh.aparc.annot
```

```
setting seed for random number generator to 1234
using ../mri/aseg.presurf.mgz aseg volume to correct midline
7.4.1   7.4.1 reading atlas from /usr/local/freesurfer/7.4.1/average/lh.DKaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs...
reading color table from GCSA file....
average std = 0.8   using min determinant for regularization = 0.006 0 singular and 342
111-conditioned covariance matrices regularized reading surface from
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.smoothwm... GCSA::load_default_data():
ninputs=1  sulc_only=0 which_norm=0 labeling surface...
1456 labels changed using aseg relabeling using
gibbs priors...
000:  2991 changed, 129904 examined...
001:   703 changed, 12623 examined...
002:   167 changed, 4048 examined...
003:    58 changed, 989 examined...
004:    21 changed, 364 examined...
005:     6 changed, 118 examined...
006:     2 changed, 41 examined...
007:     0 changed, 13 examined...
257 labels changed using aseg
000: 100 total segments, 48 labels (271 vertices) changed
001: 48 total segments, 8 labels (16 vertices) changed
002: 40 total segments, 0 labels (0 vertices) changed 10 filter
iterations complete (10 requested, 10 changed) rationalizing
unknown annotations with cortex label relabeling unknown label...
relabeling corpuscallosum label...
1841 vertices marked for relabeling... 1841 labels
changed in reclassification. writing output to
../label/lh.aparc.annot... classification took 0
minutes and 8 seconds.
@#@FSTIME  2024:04:13:12:26:56 mris_ca_label N 11 e 8.34 S 0.72 U 7.98 P 104% M 1121008 F 8 R 407195 W 0 c 18 w 24 I 64216 O 2040 L 3.10 3.23 2.99
@#@FSLOADPOST 2024:04:13:12:27:05 mris_ca_label N 11 3.00 3.20 2.98
#---------------------------------------------
### Cortical Parc rh Sat Apr 13 12:27:05 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_ca_label -l ../label/rh.cortex.label -aseg ../mri/aseg.presurf.mgz -seed 1234 014_S_4401 rh ../surf/rh.sphere.reg
/usr/local/freesurfer/7.4.1/average/rh.DKaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs ../label/rh.aparc.annot

setting seed for random number generator to 1234
using ../mri/aseg.presurf.mgz aseg volume to correct midline
7.4.1   7.4.1 reading atlas from /usr/local/freesurfer/7.4.1/average/rh.DKaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs...
reading color table from GCSA file.... average std = 0.7   using min determinant for regularization = 0.004 0 singular and
309 ill-conditioned covariance matrices regularized reading surface from
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.smoothwm... GCSA::load_default_data(): ninputs=1  sulc_only=0 which_norm=0
labeling surface...
1424 labels changed using aseg relabeling using
gibbs priors...
000:  2723 changed, 129260 examined...
001:   621 changed, 11789 examined...
002:   142 changed, 3694 examined...
003:    31 changed, 918 examined...
004:    12 changed, 196 examined...
005:     4 changed, 64 examined...
006:     0 changed, 29 examined...
213 labels changed using aseg
000: 106 total segments, 54 labels (223 vertices) changed
001: 52 total segments, 0 labels (0 vertices) changed 10 filter
iterations complete (10 requested, 7 changed) rationalizing
unknown annotations with cortex label relabeling unknown
label... relabeling corpuscallosum label...
1706 vertices marked for relabeling... 1706 labels
changed in reclassification. writing output to
../label/rh.aparc.annot... classification took 0
minutes and 8 seconds.
@#@FSTIME  2024:04:13:12:27:05 mris_ca_label N 11 e 7.82 S 0.68 U 7.50 P 104% M 1143456 F 0 R 373963 W 0 c 18 w 13 I 36352 O 2024 L 3.00 3.20 2.98
@#@FSLOADPOST 2024:04:13:12:27:13 mris_ca_label N 11 2.93 3.18 2.98
#---------------------------------------------#@#
WhiteSurfs lh Sat Apr 13 12:27:13 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --adgws-in ../surf/autodet.gw.stats.lh.dat --seg aseg.presurf.mgz --threads 2 --wm wm.mgz --invol brain.finalsurfs.mgz --lh --i ../surf/lh.white.preaparc --o ../surf/lh.white --white --nsmooth 0 --rip-label ../label/lh.cortex.label -rip-bg --rip-surf
../surf/lh.white.preaparc --aparc ../label/lh.aparc.annot
7.4.1
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv
SUBJECTS_DIR /home/jaibhatoa/mri_processed mris_place_surface
--adgws-in ../surf/autodet.gw.stats.lh.dat --seg
aseg.presurf.mgz --threads 2 --wm wm.mgz --invol
brain.finalsurfs.mgz --lh --i ../surf/lh.white.preaparc --o
../surf/lh.white --white --nsmooth 0 --rip-label
../label/lh.cortex.label -rip-bg --rip-surf
../surf/lh.white.preaparc --aparc ../label/lh.aparc.annot

Reading in input surface ../surf/lh.white.preaparc
Not smoothing input surface
Area    259804  0.34357  0.13269 0.000594   1.8274
Corner  779412 60.00000 15.79249 0.250224 179.2334
Edge    389706  0.90503  0.22098 0.019115   3.5073
Hinge   389706 12.50058 13.35968 0.000003 179.9559
Reading in aparc ../label/lh.aparc.annot
[DEBUG] CTABreadFromBinaryV2(): ct->nentries=36, num_entries_to_read=36
Reading in input volume brain.finalsurfs.mgz
Reading in seg volume aseg.presurf.mgz
Reading in wm volume wm.mgz
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 MRIfindBrightNonWM(): 995 bright
non-wm voxels segmented.
Masking bright non-wm for white surface
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
Ripping frozen voxels
Ripping vertices not in label ../label/lh.cortex.label
MRISripNotLabel() ripped 8696/129904 vertices (121208 unripped)
Reading in ripping surface ../surf/lh.white.preaparc
Reading in aparc ../label/lh.aparc.annot for ripsurf
[DEBUG] CTABreadFromBinaryV2(): ct->nentries=36, num_entries_to_read=36
Ripping BG
MRISripBasalGanglia(): 1 -2 2 0.5 ripped 421
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 MRISripSegs(): -2 2 0.5
ripped 0
vertex 64952: xyz = (-48.3227,-6.28673,-21.8242) oxyz = (-48.3227,-6.28673,-21.8242) wxzy = (-48.3227,-6.28673,-21.8242) pxyz = (0,0,0)
CBVO Creating mask 129904 n_averages 4
Iteration 0 ========================================= n_averages=4,
current_sigma=2
Computing target border values
Entering        MRIScomputeBorderValues_new():
inside_hi    = 120.0000000;    border_hi    =
110.7612300;     border_low    =   69.0000000;
outside_low  =   57.9161340;    outside_hi   =
110.7612300;     sigma  = 2;     max_thickness =
10;    step_size=0.5;   STEP_SIZE=0.1;   which
= 1    thresh = 0.5    flags = 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=2 had to be increased for 171 vertices, nripped=9117
mean border=79.4, 81 (81) missing vertices, mean dist 0.3 [2.3 (%10.5)->0.6 (%89.5))]
%47 local maxima, %46 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0873 min


Finding expansion regions mean absolute
distance = 0.81 +- 1.05
3713 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=2.0, host=vm4--, nav=4, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000
desired_rms_height 0.000000
momentum 0.000000 nbhd_size 0
max_nbrs 0 niterations 100
nsurfaces 0 SURFACES 3 flags 0
 (0) use curv 0 no sulc 0 no
rigid align 0 mris->nsize 2
mris->hemisphere 0 randomSeed 0

000: dt: 0.0000, sse=1993530.8, rms=8.640
001: dt: 0.5000, sse=702748.2, rms=4.623 (46.496%)
002: dt: 0.5000, sse=462939.1, rms=3.382 (26.830%)
003: dt: 0.5000, sse=444475.8, rms=3.278 (3.075%) 004: dt:
0.5000, sse=420485.6, rms=3.108 (5.189%)
rms = 3.2683/3.1082, sse=444344.4/420485.6, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
005: dt: 0.2500, sse=305519.4, rms=2.197 (29.327%)
006: dt: 0.2500, sse=264910.0, rms=1.769 (19.483%) 007: dt:
0.2500, sse=254010.1, rms=1.630 (7.864%)
rms = 1.6041/1.6296, sse=252716.2/254010.1, time step reduction 2 of 3 to 0.125  0 0 1
008: dt: 0.2500, sse=252716.2, rms=1.604 (1.564%) 009: dt:
0.1250, sse=248425.8, rms=1.544 (3.738%)
rms = 1.5381/1.5442, sse=247986.6/248425.8, time step reduction 3 of 3 to 0.062  0 0 1
010: dt: 0.1250, sse=247986.7, rms=1.538 (0.393%)   maximum number
of reductions reached, breaking from loop positioning took 0.7
minutes   done positioning surface
Iteration 1 ========================================= n_averages=2,
current_sigma=1
Computing target border values
Entering MRIScomputeBorderValues_new():
    inside_hi      =  120.0000000;
border_hi      =  110.7612300;
border_low     =   69.0000000;
outside_low    =   57.9161340;
outside_hi     =  110.7612300;
sigma  = 1;   max_thickness = 10;
step_size=0.5;     STEP_SIZE=0.1;
which  = 1   thresh = 0.5   flags
= 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=1 had to be increased for 107 vertices, nripped=9117
mean border=83.1, 68 (15) missing vertices, mean dist -0.3 [0.5 (%72.8)->0.2 (%27.2))]
%69 local maxima, %24 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0613 min


Finding expansion regions mean absolute
distance = 0.41 +- 0.66
3568 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
```

```
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=1.0, host=vm4--, nav=2, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=798572.2, rms=4.976
011: dt: 0.5000, sse=445385.2, rms=3.180 (36.085%)
rms = 3.2505/3.1802, sse=454420.2/445385.2, time step reduction 1 of 3 to 0.250  0 1 1    RMS
increased, rejecting step
012: dt: 0.2500, sse=336516.0, rms=2.367 (25.574%)
013: dt: 0.2500, sse=274320.7, rms=1.739 (26.521%)
014: dt: 0.2500, sse=252793.5, rms=1.456 (16.264%) 015: dt:
0.2500, sse=246243.1, rms=1.355 (6.969%)
rms = 1.3148/1.3548, sse=243691.5/246243.1, time step reduction 2 of 3 to 0.125  0 0 1
016: dt: 0.2500, sse=243691.5, rms=1.315 (2.956%) 017: dt:
0.1250, sse=239815.6, rms=1.249 (4.991%)
rms = 1.2464/1.2492, sse=239736.2/239815.6, time step reduction 3 of 3 to 0.062  0 0 1
018: dt: 0.1250, sse=239736.2, rms=1.246 (0.220%)   maximum number
of reductions reached, breaking from loop positioning took 0.5
minutes   done positioning surface
Iteration 2 ========================================
n_averages=1, current_sigma=0.5 Computing target border values
Entering       MRIScomputeBorderValues_new():
inside_hi    = 120.0000000;    border_hi    =
110.7612300;     border_low    =   69.0000000;
outside_low  =   57.9161340;    outside_hi   =
110.7612300;     sigma = 0.5;   max_thickness =
10;   step_size=0.5;
  STEP_SIZE=0.1;
which = 1   thresh =
0.5   flags = 0
  CBVFindFirstPeakD1=0
CBVFindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=0.5 had to be increased for 225 vertices, nripped=9117
mean border=86.0, 83 (8) missing vertices, mean dist -0.2 [0.3 (%73.5)->0.2 (%26.5)]
%83 local maxima, %10 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0328 min


Finding expansion regions mean absolute
distance = 0.27 +- 0.39
3268 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.5, host=vm4--, nav=1, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=518474.5, rms=3.654
019: dt: 0.5000, sse=422464.7, rms=2.980 (18.461%)
rms = 3.2270/2.9795, sse=450989.4/422464.7, time step reduction 1 of 3 to 0.250  0 1 1    RMS
increased, rejecting step
020: dt: 0.2500, sse=295603.6, rms=1.945 (34.736%)
021: dt: 0.2500, sse=250498.6, rms=1.426 (26.693%) 022: dt:
0.2500, sse=239670.5, rms=1.262 (11.491%)
rms = 1.2278/1.2617, sse=237308.8/239670.5, time step reduction 2 of 3 to 0.125  0 0 1
023: dt: 0.2500, sse=237308.8, rms=1.228 (2.687%) 024: dt:
0.1250, sse=231555.7, rms=1.134 (7.636%)
rms = 1.1309/1.1340, sse=231161.6/231555.7, time step reduction 3 of 3 to 0.062  0 0 1
025: dt: 0.1250, sse=231161.6, rms=1.131 (0.280%)   maximum number
of reductions reached, breaking from loop positioning took 0.5
minutes   done positioning surface
Iteration 3 ========================================= n_averages=0,
current_sigma=0.25
Computing target border values
Entering       MRIScomputeBorderValues_new():
inside_hi    = 120.0000000;    border_hi    =
110.7612300;     border_low    =   69.0000000;
outside_low  =   57.9161340;    outside_hi   =
110.7612300;     sigma = 0.25;   max_thickness =
10;   step_size=0.5;   STEP_SIZE=0.1;   which
= 1   thresh = 0.5   flags = 0
  CBVFindFirstPeakD1=0
CBVFindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=0.25 had to be increased for 277 vertices, nripped=9117
mean border=86.8, 129 (6) missing vertices, mean dist -0.0 [0.2 (%56.3)->0.2 (%43.7)]
%87 local maxima, % 6 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0208 min


Finding expansion regions mean absolute
distance = 0.21 +- 0.30
2761 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.2, host=vm4--, nav=0, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=259745.1, rms=1.597
rms = 1.8559/1.5972, sse=301467.2/259745.1, time step reduction 1 of 3 to 0.250  0 1 1    RMS
increased, rejecting step
026: dt: 0.2500, sse=227170.6, rms=1.071 (32.959%) 027: dt:
0.2500, sse=218462.2, rms=0.845 (21.106%)
rms = 0.8534/0.8448, sse=219100.7/218462.2, time step reduction 2 of 3 to 0.125  0 1 1    RMS
increased, rejecting step
rms = 0.8408/0.8448, sse=217987.3/218462.2, time step reduction 3 of 3 to 0.062  0 0 1
028: dt: 0.1250, sse=217987.3, rms=0.841 (0.472%)   maximum number
of reductions reached, breaking from loop positioning took 0.3
minutes   done positioning surface
Removing intersections
#ET# mris_place_surface  2.22 minutes


Writing output to ../surf/lh.white #VMPC#
mris_place_surfaces VmPeak  2048780
mris_place_surface done
@#@FSTIME  2024:04:13:12:27:13 mris_place_surface N 25 e 139.50 S 1.08 U 199.14 P 143% M 1757044 F 0 R 516332 W 0 c 340 w 357 I 0 O 9136 L 2.93 3.18 2.98
@#@FSLOADPOST 2024:04:13:12:29:32 mris_place_surface N 25 2.89 3.07 2.97
#----------------------------------------@#@
WhiteSurfs rh Sat Apr 13 12:29:32 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --adgws-in ../surf/autodet.gw.stats.rh.dat --seg aseg.presurf.mgz --threads 2 --wm wm.mgz --invol brain.finalsurfs.mgz --rh --i ../surf/rh.white.preaparc --o ../surf/rh.white --white --nsmooth 0 --rip-label ../label/rh.cortex.label -rip-bg --rip-surf
../surf/rh.white.preaparc --aparc ../label/rh.aparc.annot
7.4.1
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv
SUBJECTS_DIR /home/jaibhatoa/mri_processed
mris_place_surface --adgws-in ../surf/autodet.gw.stats.rh.dat --seg aseg.presurf.mgz --threads 2 --wm wm.mgz --invol brain.finalsurfs.mgz --rh --i ../surf/rh.white.preaparc --o ../surf/rh.white --white --nsmooth 0 --rip-label ../label/rh.cortex.label -rip-bg --rip-surf
../surf/rh.white.preaparc --aparc ../label/rh.aparc.annot

Reading in input surface ../surf/rh.white.preaparc
Not smoothing input surface
Area    258516  0.34681  0.13577 0.000098   1.9713
Corner  775548 60.00000 15.79609 0.011896 179.7199
Edge    387774  0.90926  0.22337 0.014143   3.2026
Hinge   387774 12.54150 13.31228 0.000003 179.9579
Reading in aparc ../label/rh.aparc.annot
[DEBUG] CTABreadFromBinaryV2(): ct->nentries=36, num_entries_to_read=36
Reading in input volume brain.finalsurfs.mgz
Reading in seg volume aseg.presurf.mgz
Reading in wm volume wm.mgz
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 MRIfindBrightNonWM(): 995 bright
non-wm voxels segmented.
Masking bright non-wm for white surface
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
Ripping frozen voxels
Ripping vertices not in label ../label/rh.cortex.label
MRISripNotLabel() ripped 8535/129260 vertices (120725 unripped)
Reading in ripping surface ../surf/rh.white.preaparc
Reading in aparc ../label/rh.aparc.annot for ripsurf
[DEBUG] CTABreadFromBinaryV2(): ct->nentries=36, num_entries_to_read=36
Ripping BG
MRISripBasalGanglia(): 1 -2 2 0.5 ripped 505
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 MRISripSegs(): -2 2 0.5
ripped 0
vertex 64630: xyz = (12.4789,-10.9418,58.2534) oxyz = (12.4789,-10.9418,58.2534) wxzy = (12.4789,-10.9418,58.2534) pxyz = (0,0,0)
CBVO Creating mask 129260 n_averages 4
Iteration 0 ========================================= n_averages=4,
current_sigma=2
Computing target border values
Entering MRIScomputeBorderValues_new():
    inside_hi      =  120.0000000;
border_hi        =  111.7612300;
border_low       =   68.0000000;
outside_low   =       56.9161340;
outside_hi       =  111.7612300;
sigma = 2;   max_thickness = 10;
step_size=0.5;     STEP_SIZE=0.1;
which = 1   thresh = 0.5   flags
= 0
  CBVFindFirstPeakD1=0
CBVFindFirstPeakD2=0
nvertices=129260   Gdiag_no=-1
  vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=2 had to be increased for 168 vertices, nripped=9040
mean border=79.0, 98 (98) missing vertices, mean dist 0.4 [2.2 (%11.1)->0.7 (%88.9)]
%47 local maxima, %46 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0927 min


Finding expansion regions mean absolute
distance = 0.84 +- 1.05
3647 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()
  max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=2.0, host=vm4--, nav=4, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000 desired_rms_height
0.000000 momentum 0.000000 nbhd_size 0 max_nbrs 0 niterations 100 nsurfaces 0 SURFACES 3 flags 0 (0) use curv 0 no sulc 0 no rigid align 0 mris->nsize 2
mris->hemisphere 1 randomSeed 0

000: dt: 0.0000, sse=2045435.6, rms=8.775
```

```
001: dt: 0.5000, sse=751751.3, rms=4.841 (44.832%)
002: dt: 0.5000, sse=476201.3, rms=3.460 (28.529%)
003: dt: 0.5000, sse=438869.9, rms=3.233 (6.565%) 004: dt:
0.5000, sse=412615.1, rms=3.057 (5.429%)
rms = 3.1695/3.0573, sse=429688.8/412615.1, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
005: dt: 0.2500, sse=307304.6, rms=2.208 (27.779%)
006: dt: 0.2500, sse=269312.3, rms=1.804 (18.318%) 007: dt:
0.2500, sse=259293.7, rms=1.676 (7.044%)
rms = 1.6501/1.6765, sse=258093.8/259293.7, time step reduction 2 of 3 to 0.125  0 0 1
008: dt: 0.2500, sse=258093.8, rms=1.650 (1.573%) 009: dt:
0.1250, sse=254520.7, rms=1.596 (3.297%)
rms = 1.5885/1.5957, sse=253638.5/254520.7, time step reduction 3 of 3 to 0.062  0 0 1
010: dt: 0.1250, sse=253638.5, rms=1.589 (0.450%)   maximum number
of reductions reached, breaking from loop positioning took 0.7
minutes   done positioning surface
Iteration 1 ========================================= n_averages=2,
current_sigma=1
Computing target border values Entering
MRIScomputeBorderValues_new():
    inside_hi      =  120.0000000;
border_hi         =  111.7612300;
border_low      =     68.0000000;
outside_low    =      56.9161340;
outside_hi       =   111.7612300;
sigma  =  1;   max_thickness = 10;
step_size=0.5;      STEP_SIZE=0.1;
which  =  1    thresh = 0.5   flags
=   0         CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129260        Gdiag_no=-1
vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=1 had to be increased for 168 vertices, nripped=9040
mean border=82.7, 98 (25) missing vertices, mean dist -0.3 [0.5 (%71.7)->0.3 (%28.3)] %68 local
maxima, %25 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0651 min


Finding expansion regions mean absolute
distance = 0.43 +- 0.68
3389 vertices more than 2 sigmas from mean.
Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface Entering
MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=1.0, host=vm4--, nav=2, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=786223.5, rms=4.927 011: dt: 0.5000,
sse=445262.1, rms=3.165 (35.756%)
rms = 3.1379/3.1652, sse=437379.7/445262.1, time step reduction 1 of 3 to 0.250  0 0 1
012: dt: 0.5000, sse=437379.8, rms=3.138 (0.863%)
013: dt: 0.2500, sse=283919.8, rms=1.819 (42.037%)
014: dt: 0.2500, sse=259901.9, rms=1.486 (18.273%)
015: dt: 0.2500, sse=251716.8, rms=1.420 (4.501%) 016: dt:
0.2500, sse=248286.7, rms=1.362 (4.037%)
rms = 1.3658/1.3623, sse=248940.7/248286.7, time step reduction 2 of 3 to 0.125  0 1 1    RMS
increased, rejecting step
rms = 1.3361/1.3623, sse=246632.5/248286.7, time step reduction 3 of 3 to 0.062  0 0 1
017: dt: 0.1250, sse=246632.5, rms=1.336 (1.918%)   maximum number
of reductions reached, breaking from loop positioning took 0.5
minutes   done positioning surface
Iteration 2 =========================================
n_averages=1, current_sigma=0.5 Computing target border values
Entering MRIScomputeBorderValues_new():
    inside_hi      =  120.0000000;
border_hi         =  111.7612300;
border_low      =     68.0000000;
outside_low    =      56.9161340;
outside_hi       =   111.7612300;
sigma  =  0.5;    max_thickness  =
10;                step_size=0.5;
STEP_SIZE=0.1;          which  =  1
thresh  =  0.5      flags  =  0
CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129260        Gdiag_no=-1
vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=0.5 had to be increased for 212 vertices, nripped=9040
mean border=85.6, 104 (15) missing vertices, mean dist -0.2 [0.3 (%73.3)->0.2 (%26.7))] %83 local
maxima, %10 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0353 min


Finding expansion regions mean absolute
distance = 0.29 +- 0.41
3555 vertices more than 2 sigmas from mean.
Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface Entering
MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.5, host=vm4--, nav=1, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=553185.1, rms=3.843 018: dt: 0.5000,
sse=418100.0, rms=2.966 (22.822%)
rms = 3.1407/2.9660, sse=435969.1/418100.0, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
019: dt: 0.2500, sse=299539.6, rms=2.005 (32.397%)
020: dt: 0.2500, sse=254136.0, rms=1.486 (25.868%) 021: dt:
0.2500, sse=242849.5, rms=1.322 (11.064%)
rms = 1.2884/1.3220, sse=241114.1/242849.5, time step reduction 2 of 3 to 0.125  0 0 1
022: dt: 0.2500, sse=241114.1, rms=1.288 (2.541%) 023: dt:
0.1250, sse=235686.3, rms=1.196 (7.199%)
rms = 1.1886/1.1956, sse=235373.4/235686.3, time step reduction 3 of 3 to 0.062  0 0 1
024: dt: 0.1250, sse=235373.4, rms=1.189 (0.587%)   maximum number
of reductions reached, breaking from loop positioning took 0.5
minutes   done positioning surface
Iteration 3 ========================================= n_averages=0,
current_sigma=0.25
Computing   target   border   values   Entering
MRIScomputeBorderValues_new():    inside_hi    =
120.0000000;       border_hi      = 111.7612300;
border_low    =   68.0000000;    outside_low =
56.9161340;        outside_hi    =  111.7612300;
sigma    =   0.25;          max_thickness   =  10;
step_size=0.5;     STEP_SIZE=0.1;     which  =  1
thresh    =    0.5          flags    =    0
CBVfindFirstPeakD1=0        CBVfindFirstPeakD2=0
nvertices=129260    Gdiag_no=-1   vno start=0,
stop=129260
Replacing 255s with 0s
#SI# sigma=0.25 had to be increased for 273 vertices, nripped=9040
mean border=86.5, 161 (12) missing vertices, mean dist -0.1 [0.2 (%56.7)->0.2 (%43.3))] %87 local
maxima, % 6 large gradients and % 0 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0224 min


Finding expansion regions mean absolute
distance = 0.22 +- 0.32
2524 vertices more than 2 sigmas from mean. Averaging target
values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 5, l_surf_repulse = 0, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.2, host=vm4--, nav=0, nbrs=2, l_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=266294.2, rms=1.672
rms = 1.8256/1.6720, sse=297849.8/266294.2, time step reduction 1 of 3 to 0.250  0 1 1    RMS
increased, rejecting step
025: dt: 0.2500, sse=232395.7, rms=1.155 (30.899%) 026: dt:
0.2500, sse=221848.4, rms=0.889 (23.013%)
rms = 0.8960/0.8895, sse=228032.8/221848.4, time step reduction 2 of 3 to 0.125  0 1 1    RMS
increased, rejecting step
rms = 0.8859/0.8895, sse=221565.9/221848.4, time step reduction 3 of 3 to 0.062  0 0 1
027: dt: 0.1250, sse=221565.9, rms=0.886 (0.407%)   maximum number
of reductions reached, breaking from loop positioning took 0.3
minutes   done positioning surface
Removing intersections
#ET# mris_place_surface  2.16 minutes


Writing output to ../surf/rh.white #VMPC#
mris_place_surfaces VmPeak  1997996
mris_place_surface done
###ETSTIME  2024:04:13:12:29:32 mris_place_surface N 25 e 135.34 S 0.92 U 191.39 P 142% M 1706564 F 0 R 503246 W 0 c 275 w 354 I 0 O 9096 L 2.89 3.07 2.97
###FSLOADPOST 2024:04:13:12:31:48 mris_place_surface N 25 2.95 2.98 2.95
#---------------------------------------###
T1PialSurf lh Sat Apr 13 12:31:48 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --adgws-in ../surf/autodet.gw.stats.lh.dat --seg aseg.presurf.mgz --threads 2 --wm wm.mgz --invol brain.finalsurfs.mgz --lh --i ../surf/lh.white --o ../surf/lh.pial.T1 --pial --nsmooth 0 --rip-label ../label/lh.cortex+hipamyg.label -pin-medial-wall
../label/lh.cortex.label --aparc ../label/lh.aparc.annot --repulse-surf ../surf/lh.white --white-surf ../surf/lh.white
7.4.1
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv
SUBJECTS_DIR /home/jaibhatoa/mri_processed
mris_place_surface --adgws-in ../surf/autodet.gw.stats.lh.dat --seg aseg.presurf.mgz --threads 2 --wm wm.mgz --invol brain.finalsurfs.mgz --lh --i ../surf/lh.white --o ../surf/lh.pial.T1 --pial --nsmooth 0 --rip-label ../label/lh.cortex+hipamyg.label -pin-medial-wall
../label/lh.cortex.label --aparc ../label/lh.aparc.annot --repulse-surf ../surf/lh.white --white-surf ../surf/lh.white

Reading in input surface ../surf/lh.white
Not smoothing input surface
Area    259804  0.34586  0.14441 0.000105   2.0222
Corner  779412 60.00000 17.02584 0.013917 179.9081
Edge    389706  0.90954  0.23621 0.019170   3.5121
Hinge   389706 12.64563 13.63772 0.000003 179.9139
Reading white surface coordinates from ../surf/lh.white
Reading repulsion surface coordinates from ../surf/lh.white
Reading in aparc ../label/lh.aparc.annot
[DEBUG] CTABreadFromBinaryV2(): ct->nentries=36, num_entries_to_read=36
Reading in input volume brain.finalsurfs.mgz
Reading in seg volume aseg.presurf.mgz
Reading in wm volume wm.mgz
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 MRIfindBrightNonWM(): 995 bright
non-wm voxels segmented.
Masking bright non-wm for pial surface mid_gray = 64.4936
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
Ripping frozen voxels
Ripping vertices not in label ../label/lh.cortex+hipamyg.label
MRISripNotLabel() ripped 6911/129904 vertices (122993 unripped)
INFO: rip surface needed but not specified, so using input surface
Ripping segs (eg, WMSA, BG, frozen)
```

```
Starting MRIStripSegs() d = (-2 2 0.5) segnos: 247 MRIStripSegs(): -2 2 0.5
ripped 0
vertex 64952: xyz = (-48.4467,-6.37362,-21.8357) oxyz = (-48.4467,-6.37362,-21.8357) wxzy = (-48.4467,-6.37362,-21.8357) pxyz = (-48.4467,-6.37362,-21.8357)
CBVO Creating mask 129904 n_averages 16
Iteration 0 ========================================= n_averages=16,
current_sigma=2
Computing target border values
Entering        MRIScomputeBorderValues_new():
inside_hi    =   93.2387700;    border_hi    =
57.9161340;    border_low    =    35.7484020;
outside_low  =   10.0000000;    outside_hi   =
52.3741990;    sigma = 2;   max_thickness = 10;
step_size=0.5;    STEP_SIZE=0.1;    which  =  2
thresh = 0.5   flags = 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=2 had to be increased for 202 vertices, nripped=6911
mean border=54.9, 84 (84) missing vertices, mean dist 2.0 [0.3 (%0.0)->2.5 (%100.0)]
%23 local maxima, %53 large gradients and %19 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0704 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=2.0, host=vm4--, nav=16, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000
desired_rms_height 0.000000
momentum 0.000000 nbhd_size 0
max_nbrs 0 niterations 100
nsurfaces 0 SURFACES 3 flags 0
(0) use curv 0 no sulc 0 no
rigid align 0 mris->nsize 2
mris->hemisphere 0 randomSeed 0

000: dt: 0.0000, sse=25923026.0, rms=32.353
001: dt: 0.5000, sse=17805216.0, rms=26.767 (17.265%)
002: dt: 0.5000, sse=12384352.0, rms=22.269 (16.804%) 003: dt:
0.5000, sse=9195065.0, rms=19.134 (14.081%)
004: dt: 0.5000, sse=7311054.5, rms=17.010 (11.098%)
005: dt: 0.5000, sse=6026782.0, rms=15.395 (9.497%)
006: dt: 0.5000, sse=4889369.5, rms=13.807 (10.314%)
007: dt: 0.5000, sse=3795932.8, rms=12.085 (12.469%)
008: dt: 0.5000, sse=2839135.2, rms=10.346 (14.393%)
009: dt: 0.5000, sse=2077049.2, rms=8.714 (15.770%)
010: dt: 0.5000, sse=1537005.0, rms=7.341 (15.765%)
011: dt: 0.5000, sse=1219003.8, rms=6.393 (12.904%)
012: dt: 0.5000, sse=1052518.1, rms=5.834 (8.744%)
013: dt: 0.5000, sse=978079.6, rms=5.564 (4.629%)
014: dt: 0.5000, sse=936756.8, rms=5.407 (2.821%)
015: dt: 0.5000, sse=915479.4, rms=5.323 (1.552%) 016: dt:
0.5000, sse=897534.4, rms=5.251 (1.359%)
rms = 5.2157/5.2510, sse=889112.1/897534.4, time step reduction 1 of 3 to 0.250  0 0 1
017: dt: 0.5000, sse=889112.1, rms=5.216 (0.672%)
018: dt: 0.2500, sse=599059.0, rms=3.898 (25.269%)
019: dt: 0.2500, sse=534821.7, rms=3.544 (9.072%) 020: dt:
0.2500, sse=523124.7, rms=3.473 (1.994%)
rms = 3.4270/3.4735, sse=515387.6/523124.7, time step reduction 2 of 3 to 0.125  0 0 1
021: dt: 0.2500, sse=515387.6, rms=3.427 (1.337%)
022: dt: 0.1250, sse=459200.9, rms=3.070 (10.423%) 023: dt:
0.1250, sse=451552.9, rms=3.018 (1.687%)
rms = 3.0116/3.0181, sse=450664.8/451552.9, time step reduction 3 of 3 to 0.062  0 0 1
024: dt: 0.1250, sse=450664.8, rms=3.012 (0.215%)   maximum number
of reductions reached, breaking from loop positioning took 1.3
minutes   done positioning surface
Iteration 1 ========================================= n_averages=8,
current_sigma=1
Computing target border values
Entering        MRIScomputeBorderValues_new():
inside_hi    =   93.2387700;    border_hi    =
57.9161340;    border_low    =    35.7484020;
outside_low  =   10.0000000;    outside_hi   =
52.3741990;    sigma = 1;   max_thickness = 10;
step_size=0.5;    STEP_SIZE=0.1;    which = 2
  thresh = 0.5   flags
= 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=1 had to be increased for 4925 vertices, nripped=6911
mean border=52.4, 805 (5) missing vertices, mean dist 0.1 [0.1 (%39.4)->0.3 (%60.6)]
%44 local maxima, %34 large gradients and %16 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0214 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=1.0, host=vm4--, nav=8, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=814420.4, rms=4.686
rms = 4.8550/4.6862, sse=855440.0/814420.4, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
025: dt: 0.2500, sse=639357.1, rms=3.848 (17.886%)
026: dt: 0.2500, sse=551437.2, rms=3.347 (13.030%) 027: dt:
0.2500, sse=528414.2, rms=3.208 (4.152%)
rms = 3.1996/3.2077, sse=527179.0/528414.2, time step reduction 2 of 3 to 0.125  0 0 1
028: dt: 0.2500, sse=527179.0, rms=3.200 (0.251%)
029: dt: 0.1250, sse=492175.3, rms=2.965 (7.341%) 030: dt:
0.1250, sse=484871.6, rms=2.914 (1.701%)
rms = 2.9065/2.9143, sse=483758.6/484871.6, time step reduction 3 of 3 to 0.062  0 0 1
031: dt: 0.1250, sse=483758.6, rms=2.906 (0.269%)   maximum number
of reductions reached, breaking from loop positioning took 0.4
minutes   done positioning surface
Iteration 2 =========================================
n_averages=4, current_sigma=0.5 Computing target border values
Entering MRIScomputeBorderValues_new():
    inside_hi    =   93.2387700;
border_hi    =    57.9161340;
border_low   =    35.7484020;
outside_low  =    10.0000000;
outside_hi   =    52.3741990;
sigma  =  0.5;    max_thickness =
10;              step_size=0.5;
STEP_SIZE=0.1;       which  =  2
thresh = 0.5   flags = 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=0.5 had to be increased for 5136 vertices, nripped=6911
mean border=50.6, 996 (0) missing vertices, mean dist 0.1 [0.1 (%38.2)->0.3 (%61.8)]
%59 local maxima, %19 large gradients and %16 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0124 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.5, host=vm4--, nav=4, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=631813.8, rms=3.786
rms = 5.0310/3.7857, sse=902694.4/631813.8, time step reduction 1 of 3 to 0.250  0 1 1    RMS
increased, rejecting step
032: dt: 0.2500, sse=526164.1, rms=3.163 (16.438%) 033: dt:
0.2500, sse=511585.8, rms=3.067 (3.034%)
rms = 3.0342/3.0674, sse=505838.6/511585.8, time step reduction 2 of 3 to 0.125  0 0 1
034: dt: 0.2500, sse=505838.6, rms=3.034 (1.085%) 035: dt:
0.1250, sse=480714.2, rms=2.858 (5.816%)
rms = 2.8235/2.8577, sse=475869.1/480714.1, time step reduction 3 of 3 to 0.062  0 0 1
036: dt: 0.1250, sse=475869.1, rms=2.824 (1.196%)   maximum number
of reductions reached, breaking from loop positioning took 0.3
minutes   done positioning surface
Iteration 3 ========================================= n_averages=2,
current_sigma=0.25
Computing target border values
Entering        MRIScomputeBorderValues_new():
inside_hi    =   93.2387700;    border_hi    =
57.9161340;    border_low    =    35.7484020;
outside_low  =   10.0000000;    outside_hi   =
52.3741990;    sigma = 0.25;   max_thickness =
10;    step_size=0.5;    STEP_SIZE=0.1;   which
= 2   thresh = 0.5   flags = 0
  CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129904   Gdiag_no=-1
  vno start=0, stop=129904
Replacing 255s with 0s
#SI# sigma=0.25 had to be increased for 4146 vertices, nripped=6911
mean border=49.7, 2248 (0) missing vertices, mean dist 0.0 [0.1 (%46.0)->0.2 (%54.0)]
%62 local maxima, %15 large gradients and %16 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0083 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0
Positioning surface
Entering MRISpositionSurface()   max_mm =
0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.2, host=vm4--, nav=2, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=508002.6, rms=3.048
rms = 4.1184/3.0479, sse=695673.5/508002.6, time step reduction 1 of 3 to 0.250  0 1 1    RMS
increased, rejecting step
037: dt: 0.2500, sse=479706.6, rms=2.851 (6.465%)
rms = 2.8110/2.8508, sse=473428.6/479706.6, time step reduction 2 of 3 to 0.125  0 0 1
038: dt: 0.2500, sse=473428.7, rms=2.811 (1.396%) 039: dt:
0.1250, sse=461379.7, rms=2.721 (3.193%)
rms = 2.6895/2.7213, sse=456909.7/461379.7, time step reduction 3 of 3 to 0.062  0 0 1
040: dt: 0.1250, sse=456909.7, rms=2.690 (1.168%)   maximum number
of reductions reached, breaking from loop positioning took 0.2
minutes   done positioning surface
```

```
Pinning medial wall to white surface
Removing intersections removing
intersecting faces 000: 21 intersecting
terminating search with 0 intersecting
#ET# mris_place_surface  2.49 minutes


Writing output to ../surf/lh.pial.T1 #VMPC#
mris_place_surfaces VmPeak  1370088
mris_place_surface done
@#@FSTIME  2024:04:13:12:31:48 mris_place_surface N 28 e 155.14 S 0.54 U 226.03 P 146% M 1069788 F 0 R 295410 W 0 c 421 w 382 I 0 O 9136 L 2.95 2.98 2.95
@#@FSLOADPOST 2024:04:13:12:34:23 mris_place_surface N 28 3.11 3.05 2.99
#---------------------------------------------------------------@#@
TIPialSurf rh Sat Apr 13 12:34:23 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --adgws-in ../surf/autodet.gw.stats.rh.dat --seg aseg.presurf.mgz --threads 2 --wm wm.mgz --invol brain.finalsurfs.mgz --rh --i ../surf/rh.white --o ../surf/rh.pial.T1 --pial --nsmooth 0 --rip-label ../label/rh.cortex+hipamyg.label -pin-medial-wall
../label/rh.cortex.label --aparc ../label/rh.aparc.annot --repulse-surf ../surf/rh.white --white-surf ../surf/rh.white
7.4.1
7.4.1

cd /home/jaibhatoa/mri_processed/014_S_4401/mri setenv
SUBJECTS_DIR /home/jaibhatoa/mri_processed
mris_place_surface --adgws-in ../surf/autodet.gw.stats.rh.dat --seg aseg.presurf.mgz --threads 2 --wm wm.mgz --invol brain.finalsurfs.mgz --rh --i ../surf/rh.white --o ../surf/rh.pial.T1 --pial --nsmooth 0 --rip-label ../label/rh.cortex+hipamyg.label -pin-medial-wall
../label/rh.cortex.label --aparc ../label/rh.aparc.annot --repulse-surf ../surf/rh.white --white-surf ../surf/rh.white

Reading in input surface ../surf/rh.white
Not smoothing input surface
Area    258516  0.35007  0.14862 0.000098   2.0937
Corner  775548 60.00000 17.06422 0.018041 179.8958
Edge    387774  0.91515  0.24049 0.012198   3.3385
Hinge   387774 12.70256 13.51658 0.000015 179.9393
Reading white surface coordinates from ../surf/rh.white
Reading repulsion surface coordinates from ../surf/rh.white
Reading in aparc ../label/rh.aparc.annot
[DEBUG] CTABreadFromBinaryV2(): ct->nentries=36, num_entries_to_read=36
Reading in input volume brain.finalsurfs.mgz
Reading in seg volume aseg.presurf.mgz
Reading in wm volume wm.mgz
MRIclipBrightWM(): nthresh=41599, wmmin=5, clip=110 MRIfindBrightNonWM(): 995 bright
non-wm voxels segmented.
Masking bright non-wm for pial surface mid_gray = 64.4936
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
MRImask(): AllowDiffGeom = 1
Ripping frozen voxels
Ripping vertices not in label ../label/rh.cortex+hipamyg.label
MRISripNotLabel() ripped 6648/129260 vertices (122612 unripped)
INFO: rip surface needed but not specified, so using input surface
Ripping segs (eg, WMSA, BG, frozen)
Starting MRISripSegs() d = (-2 2 0.5) segnos: 247 MRISripSegs(): -2 2 0.5
ripped 0
vertex 64630: xyz = (12.468,-11.006,58.2678) oxyz = (12.468,-11.006,58.2678) wxzy = (12.468,-11.006,58.2678) pxyz = (12.468,-11.006,58.2678)
CBVO Creating mask 129260 n_averages 16
Iteration 0 ========================================= n_averages=16,
current_sigma=2
Computing   target   border  values   Entering
MRIScomputeBorderValues_new():   inside_hi   =
94.2387700;      border_hi     =    56.9161340;
border_low    =   34.7484020;    outside_low =
10.0000000;      outside_hi    =    51.3741990;
sigma   =  2;          max_thickness   =  10;
step_size=0.5;     STEP_SIZE=0.1;      which  =  2
thresh    =    0.5              flags   =   0
CBVfindFirstPeakD1=0       CBVfindFirstPeakD2=0
nvertices=129260    Gdiag_no=-1   vno start=0,
stop=129260
Replacing 255s with 0s
#SI# sigma=2 had to be increased for 267 vertices, nripped=6648
mean border=54.2, 127 (127) missing vertices, mean dist 2.0 [2.6 (%0.0)->2.6 (%100.0))] %20 local
maxima, %54 large gradients and %20 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0716 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0 Positioning
surface Entering MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=2.0, host=vm4--, nav=16, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
complete_dist_mat 0 rms 0 smooth_averages 0 remove_neg 0 ico_order 0 which_surface 0 target_radius 0.000000 nfields 0 scale 0.000000 desired_rms_height 0.000000
momentum 0.000000 nbhd_size 0 max_nbrs 0 niterations 100 nsurfaces 0 SURFACES 3 flags 0 (0) use curv 0 no sulc 0 no rigid align 0 mris->nsize 2 mris->hemisphere
1 randomSeed 0

000: dt: 0.0000, sse=26454248.0, rms=32.741
001: dt: 0.5000, sse=18531400.0, rms=27.359 (16.437%)
002: dt: 0.5000, sse=13141411.0, rms=22.988 (15.977%)
003: dt: 0.5000, sse=9864892.0, rms=19.865 (13.587%)
004: dt: 0.5000, sse=7833843.0, rms=17.652 (11.139%)
005: dt: 0.5000, sse=6376017.5, rms=15.874 (10.074%)
006: dt: 0.5000, sse=5080773.5, rms=14.107 (11.131%)
007: dt: 0.5000, sse=3893589.8, rms=12.266 (13.052%)
008: dt: 0.5000, sse=2892508.8, rms=10.463 (14.692%)
009: dt: 0.5000, sse=2128467.8, rms=8.843 (15.483%)
010: dt: 0.5000, sse=1591254.0, rms=7.496 (15.238%)
011: dt: 0.5000, sse=1271752.5, rms=6.562 (12.452%)
012: dt: 0.5000, sse=1092262.0, rms=5.973 (8.985%)
013: dt: 0.5000, sse=1003673.8, rms=5.657 (5.284%)
014: dt: 0.5000, sse=944472.3, rms=5.435 (3.923%)
015: dt: 0.5000, sse=917646.8, rms=5.330 (1.942%) 016: dt:
0.5000, sse=891169.2, rms=5.224 (1.983%)
rms = 5.1908/5.2241, sse=883416.3/891169.2, time step reduction 1 of 3 to 0.250  0 0 1
017: dt: 0.5000, sse=883416.2, rms=5.191 (0.638%)
018: dt: 0.2500, sse=601037.8, rms=3.900 (24.869%) 019: dt:
0.2500, sse=539974.6, rms=3.563 (8.634%)
rms = 3.5202/3.5632, sse=533035.8/539974.6, time step reduction 2 of 3 to 0.125  0 0 1
020: dt: 0.2500, sse=533035.9, rms=3.520 (1.205%)
021: dt: 0.1250, sse=475036.6, rms=3.161 (10.214%) 022: dt:
0.1250, sse=467006.6, rms=3.108 (1.676%)
rms = 3.0989/3.1077, sse=465776.2/467006.6, time step reduction 3 of 3 to 0.062  0 0 1
023: dt: 0.1250, sse=465776.2, rms=3.099 (0.284%)   maximum number
of reductions reached, breaking from loop positioning took 1.3
minutes   done positioning surface
Iteration 1 ========================================= n_averages=8,
current_sigma=1
Computing target border values Entering
MRIScomputeBorderValues_new():
    inside_hi     =    94.2387700;
border_hi     =     56.9161340;
border_low    =     34.7484020;
outside_low   =     10.0000000;
outside_hi    =     51.3741990;
sigma  = 1;   max_thickness = 10;
step_size=0.5;     STEP_SIZE=0.1;
which  = 2   thresh = 0.5   flags
=   0        CBVfindFirstPeakD1=0
CBVfindFirstPeakD2=0
nvertices=129260     Gdiag_no=-1
vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=1 had to be increased for 5016 vertices, nripped=6648
mean border=51.9, 934 (14) missing vertices, mean dist 0.1 [0.1 (%40.2)->0.4 (%59.8)] %42 local
maxima, %35 large gradients and %17 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0224 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0
Positioning surface Entering
MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=1.0, host=vm4--, nav=8, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=792629.0, rms=4.584
rms = 4.7241/4.5842, sse=825481.7/792629.0, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
024: dt: 0.2500, sse=646037.3, rms=3.874 (15.502%)
025: dt: 0.2500, sse=565222.2, rms=3.418 (11.760%) 026: dt:
0.2500, sse=542833.8, rms=3.285 (3.898%)
rms = 3.2655/3.2848, sse=539621.0/542833.8, time step reduction 2 of 3 to 0.125  0 0 1
027: dt: 0.2500, sse=539621.1, rms=3.265 (0.587%) 028: dt:
0.1250, sse=509357.4, rms=3.067 (6.087%)
rms = 3.0195/3.0667, sse=502315.0/509357.4, time step reduction 3 of 3 to 0.062  0 0 1
029: dt: 0.1250, sse=502315.0, rms=3.019 (1.540%)   maximum number
of reductions reached, breaking from loop positioning took 0.3
minutes   done positioning surface
Iteration    2   =========================================
n_averages=4, current_sigma=0.5 Computing target border values
Entering  MRIScomputeBorderValues_new():      inside_hi      =
94.2387700;      border_hi     =    56.9161340;      border_low    =
34.7484020;      outside_low  =   10.0000000;     outside_hi   =
51.3741990;        sigma    =  0.5;        max_thickness   =  10;
step_size=0.5;     STEP_SIZE=0.1;      which  =  2    thresh = 0.5
flags  =  0      CBVfindFirstPeakD1=0       CBVfindFirstPeakD2=0
nvertices=129260   Gdiag_no=-1   vno start=0, stop=129260
Replacing 255s with 0s
#SI# sigma=0.5 had to be increased for 5317 vertices, nripped=6648
mean border=50.4, 1201 (8) missing vertices, mean dist 0.1 [0.1 (%40.2)->0.3 (%59.8)] %58 local
maxima, %19 large gradients and %17 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0130 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0
Positioning surface Entering
MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.5, host=vm4--, nav=4, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=623635.1, rms=3.731
rms = 4.8390/3.7309, sse=856602.4/623635.1, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
030: dt: 0.2500, sse=533357.6, rms=3.196 (14.340%) 031: dt:
0.2500, sse=517528.0, rms=3.093 (3.212%)
rms = 3.0607/3.0932, sse=512032.5/517528.0, time step reduction 2 of 3 to 0.125  0 0 1
032: dt: 0.2500, sse=512032.4, rms=3.061 (1.053%) 033: dt:
0.1250, sse=489304.1, rms=2.903 (5.162%)
rms = 2.8679/2.9027, sse=484301.8/489304.1, time step reduction 3 of 3 to 0.062  0 0 1
034: dt: 0.1250, sse=484301.8, rms=2.868 (1.198%)   maximum number
of reductions reached, breaking from loop positioning took 0.3
minutes   done positioning surface
Iteration 3 ========================================= n_averages=2,
current_sigma=0.25
Computing   target   border  values  Entering
MRIScomputeBorderValues_new():   inside_hi   =
94.2387700;      border_hi     =    56.9161340;
border_low    =   34.7484020;    outside_low =
10.0000000;      outside_hi    =    51.3741990;
sigma   =  0.25;       max_thickness   =  10;
step_size=0.5;     STEP_SIZE=0.1;     which  =  2
```

```
thresh     =    0.5              flags    =    0
CBVFindFirstPeakD1=0       CBVFindFirstPeakD2=0
nvertices=129260    Gdiag_no=-1   vno start=0,
stop=129260
Replacing 255s with 0s
#ST# sigma=0.25 had to be increased for 4400 vertices, nripped=6648
mean border=49.5, 2433 (6) missing vertices, mean dist 0.0 [0.1 (%47.2)->0.2 (%52.8))] %61 local
maxima, %16 large gradients and %16 min vals, 0 gradients ignored nFirstPeakD1 0
MRIScomputeBorderValues_new() finished in 0.0085 min


Averaging target values for 5 iterations...
Positioning Surface: tspring = 0.3, nspring = 0.3, spring = 0, niters = 100 l_repulse = 0, l_surf_repulse = 5, checktol = 0 Positioning
surface Entering MRISpositionSurface()   max_mm = 0.3
  MAX_REDUCTIONS = 2, REDUCTION_PCT = 0.5
  parms->check_tol = 0, niterations = 100
tol=1.0e-04, sigma=0.2, host=vm4--, nav=2, nbrs=2, l_surf_repulse=5.000, l_tspring=0.300, l_nspring=0.300, l_intensity=0.200, l_curv=1.000 mom=0.00, dt=0.50
000: dt: 0.0000, sse=515043.7, rms=3.080
rms = 4.0297/3.0804, sse=679398.6/515043.7, time step reduction 1 of 3 to 0.250  0 1 1
   RMS increased, rejecting step
035: dt: 0.2500, sse=487179.5, rms=2.888 (6.246%)
rms = 2.8462/2.8880, sse=480579.2/487179.5, time step reduction 2 of 3 to 0.125  0 0 1
036: dt: 0.2500, sse=480579.2, rms=2.846 (1.447%) 037: dt:
0.1250, sse=469262.6, rms=2.763 (2.928%)
rms = 2.7266/2.7629, sse=464140.5/469262.6, time step reduction 3 of 3 to 0.062  0 0 1
038: dt: 0.1250, sse=464140.5, rms=2.727 (1.312%)   maximum number
of reductions reached, breaking from loop positioning took 0.2
minutes   done positioning surface Pinning medial wall to white
surface Removing intersections removing intersecting faces 000: 43
intersecting 001: 15 intersecting terminating search with 0
intersecting
#ET# mris_place_surface  2.40 minutes


Writing output to ../surf/rh.pial.T1 #VMPC#
mris_place_surfaces VmPeak  1359532
mris_place_surface done
@#@FSTIME  2024:04:13:12:34:23 mris_place_surface N 28 e 149.64 S 0.65 U 218.16 P 146% M 1059444 F 0 R 292919 W 0 c 428 w 391 I 0 O 9096 L 3.11 3.05 2.99
@#@FSLOADPOST 2024:04:13:12:36:52 mris_place_surface N 28 2.93 3.03 2.99
### white curv lh Sat Apr 13 12:36:52 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mris_place_surface --curv-map
../surf/lh.white 2 10 ../surf/lh.curv insurf  ../surf/lh.white, nbrs 2,
curvature_avgs 10 writing curvature file ../surf/lh.curv
@#@FSTIME  2024:04:13:12:36:53 mris_place_surface N 5 e 1.47 S 0.13 U 1.52 P 112% M 179152 F 0 R 48256 W 0 c 5 w 5 I 0 O 1016 L 2.93 3.03 2.99 @#@FSLOADPOST 2024:04:13:12:36:54
mris_place_surface N 5 2.93 3.03 2.99
### white area lh Sat Apr 13 12:36:54 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mris_place_surface
--area-map ../surf/lh.white ../surf/lh.area writing curvature file
../surf/lh.area
@#@FSTIME  2024:04:13:12:36:54 mris_place_surface N 3 e 0.59 S 0.11 U 0.66 P 129% M 179056 F 0 R 48283 W 0 c 15 w 6 I 0 O 1016 L 2.93 3.03 2.99 @#@FSLOADPOST 2024:04:13:12:36:55
mris_place_surface N 3 2.93 3.03 2.99
### pial curv lh Sat Apr 13 12:36:55 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --curv-map ../surf/lh.pial 2 10 ../surf/lh.curv.pial insurf
../surf/lh.pial, nbrs 2, curvature_avgs 10 writing curvature file
../surf/lh.curv.pial
@#@FSTIME  2024:04:13:12:36:55 mris_place_surface N 5 e 1.43 S 0.12 U 1.49 P 113% M 179020 F 0 R 48279 W 0 c 6 w 5 I 0 O 1016 L 2.93 3.03 2.99
@#@FSLOADPOST 2024:04:13:12:36:56 mris_place_surface N 5 2.93 3.03 2.99
### pial area lh Sat Apr 13 12:36:56 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mris_place_surface --area-map
../surf/lh.pial ../surf/lh.area.pial writing curvature file
../surf/lh.area.pial
@#@FSTIME  2024:04:13:12:36:56 mris_place_surface N 3 e 0.61 S 0.09 U 0.70 P 129% M 179140 F 0 R 48280 W 0 c 4 w 5 I 0 O 1016 L 2.93 3.03 2.99
@#@FSLOADPOST 2024:04:13:12:36:57 mris_place_surface N 3 2.93 3.03 2.99
### thickness lh Sat Apr 13 12:36:57 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --thickness ../surf/lh.white ../surf/lh.pial 20 5 ../surf/lh.thickness
0 of 129904 vertices processed
25000 of 129904 vertices processed
50000 of 129904 vertices processed
75000 of 129904 vertices processed
100000 of 129904 vertices processed
125000 of 129904 vertices processed
0 of 129904 vertices processed
25000 of 129904 vertices processed
50000 of 129904 vertices processed
75000 of 129904 vertices processed
100000 of 129904 vertices processed 125000 of 129904
vertices processed thickness calculation complete, 92:438
truncations.
61590 vertices at 0 distance
118572 vertices at 1 distance
58275 vertices at 2 distance
15446 vertices at 3 distance
3968 vertices at 4 distance
1181 vertices at 5 distance
387 vertices at 6 distance
120 vertices at 7 distance
66 vertices at 8 distance
49 vertices at 9 distance
25 vertices at 10 distance
21 vertices at 11 distance
24 vertices at 12 distance
29 vertices at 13 distance
10 vertices at 14 distance
5 vertices at 15 distance
10 vertices at 16 distance
7 vertices at 17 distance
10 vertices at 18 distance
7 vertices at 19 distance 6
vertices at 20 distance
writing curvature file ../surf/lh.thickness
@#@FSTIME  2024:04:13:12:36:57 mris_place_surface N 6 e 25.53 S 0.14 U 25.65 P 101% M 178904 F 0 R 55136 W 0 c 29 w 8 I 0 O 1016 L 2.93 3.03 2.99
@#@FSLOADPOST 2024:04:13:12:37:22 mris_place_surface N 6 2.86 3.01 2.99
### area and vertex vol lh Sat Apr 13 12:37:22 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --thickness ../surf/lh.white ../surf/lh.pial 20 5 ../surf/lh.thickness
/home/jaibhatoa/mri_processed/014_S_4401/surf mris_calc -o
lh.area.mid lh.area add lh.area.pial
Saving result to 'lh.area.mid' (type = MRI_CURV_FILE)                     [ ok ] mris_calc -o
lh.area.mid lh.area.mid div 2
Saving result to 'lh.area.mid' (type = MRI_CURV_FILE)                     [ ok ] mris_convert --volume
014_S_4401 lh /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.volume
masking with /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Total face volume 230126
Total vertex volume 229882 (mask=0)
### 014_S_4401 lh 229882
 vertexvol Done
@#@FSTIME  2024:04:13:12:37:22 vertexvol N 4 e 1.24 S 0.20 U 1.29 P 120% M 297408 F 8 R 84481 W 0 c 5 w 33 I 1080 O 3048 L 2.86 3.01 2.99
@#@FSLOADPOST 2024:04:13:12:37:24 vertexvol N 4 2.79 2.99 2.98
### white curv rh Sat Apr 13 12:37:24 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mris_place_surface --curv-map
../surf/rh.white 2 10 ../surf/rh.curv insurf  ../surf/rh.white, nbrs 2,
curvature_avgs 10 writing curvature file ../surf/rh.curv
@#@FSTIME  2024:04:13:12:37:24 mris_place_surface N 5 e 1.45 S 0.09 U 1.54 P 112% M 177952 F 0 R 48012 W 0 c 17 w 5 I 0 O 1016 L 2.79 2.99 2.98
@#@FSLOADPOST 2024:04:13:12:37:25 mris_place_surface N 5 2.79 2.99 2.98
### white area rh Sat Apr 13 12:37:25 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri mris_place_surface
--area-map ../surf/rh.white ../surf/rh.area writing curvature file
../surf/rh.area
@#@FSTIME  2024:04:13:12:37:25 mris_place_surface N 3 e 0.59 S 0.08 U 0.68 P 128% M 178048 F 0 R 48031 W 0 c 3 w 5 I 0 O 1016 L 2.79 2.99 2.98
@#@FSLOADPOST 2024:04:13:12:37:26 mris_place_surface N 3 2.79 2.99 2.98
### pial curv rh Sat Apr 13 12:37:26 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --curv-map ../surf/rh.pial 2 10 ../surf/rh.curv.pial insurf
../surf/rh.pial, nbrs 2, curvature_avgs 10 writing curvature file
../surf/rh.curv.pial
@#@FSTIME  2024:04:13:12:37:26 mris_place_surface N 5 e 1.41 S 0.12 U 1.46 P 112% M 177816 F 0 R 48027 W 0 c 9 w 5 I 0 O 1016 L 2.79 2.99 2.98
@#@FSLOADPOST 2024:04:13:12:37:27 mris_place_surface N 5 2.79 2.99 2.98
### pial area rh Sat Apr 13 12:37:27 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --area-map ../surf/rh.pial ../surf/rh.area.pial writing curvature
file ../surf/rh.area.pial
@#@FSTIME  2024:04:13:12:37:27 mris_place_surface N 3 e 0.57 S 0.08 U 0.65 P 129% M 177952 F 0 R 48032 W 0 c 4 w 5 I 0 O 1016 L 2.79 2.99 2.98
@#@FSLOADPOST 2024:04:13:12:37:28 mris_place_surface N 3 2.81 3.00 2.98
### thickness rh Sat Apr 13 12:37:28 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --thickness ../surf/rh.white ../surf/rh.pial 20 5 ../surf/rh.thickness
0 of 129260 vertices processed
25000 of 129260 vertices processed
50000 of 129260 vertices processed
75000 of 129260 vertices processed
100000 of 129260 vertices processed
125000 of 129260 vertices processed
0 of 129260 vertices processed
25000 of 129260 vertices processed
50000 of 129260 vertices processed
75000 of 129260 vertices processed
100000 of 129260 vertices processed 125000 of 129260
vertices processed thickness calculation complete, 79:541
truncations.
60355 vertices at 0 distance
114649 vertices at 1 distance
60062 vertices at 2 distance
16585 vertices at 3 distance
4577 vertices at 4 distance
1429 vertices at 5 distance
451 vertices at 6 distance
194 vertices at 7 distance
69 vertices at 8 distance
39 vertices at 9 distance
23 vertices at 10 distance
12 vertices at 11 distance
13 vertices at 12 distance
12 vertices at 13 distance
12 vertices at 14 distance
10 vertices at 15 distance
5 vertices at 16 distance
6 vertices at 17 distance
6 vertices at 18 distance
7 vertices at 19 distance4 vertices at 20 distance
writing curvature file ../surf/rh.thickness
@#@FSTIME  2024:04:13:12:37:28 mris_place_surface N 6 e 25.00 S 0.15 U 25.07 P 100% M 178072 F 0 R 54845 W 0 c 37 w 7 I 0 O 1016 L 2.81 3.00 2.98
@#@FSLOADPOST 2024:04:13:12:37:53 mris_place_surface N 6 2.53 2.91 2.96
### area and vertex vol rh Sat Apr 13 12:37:53 UTC 2024 cd
/home/jaibhatoa/mri_processed/014_S_4401/mri
mris_place_surface --thickness ../surf/rh.white ../surf/rh.pial 20 5 ../surf/rh.thickness
/home/jaibhatoa/mri_processed/014_S_4401/surf mris_calc -o
rh.area.mid rh.area add rh.area.pial
Saving result to 'rh.area.mid' (type = MRI_CURV_FILE)                     [ ok ] mris_calc -o
rh.area.mid rh.area.mid div 2
Saving result to 'rh.area.mid' (type = MRI_CURV_FILE)                     [ ok ] mris_convert --volume
014_S_4401 rh /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.volume masking with
/home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label Total face volume 234921
Total vertex volume 234712 (mask=0)
### 014_S_4401 rh 234712

vertexvol Done
@#@FSTIME  2024:04:13:12:37:53 vertexvol N 4 e 1.22 S 0.20 U 1.27 P 120% M 295828 F 0 R 84100 W 0 c 12 w 28 I 0 O 3048 L 2.53 2.91 2.96
```

```
@#@FSLOADPOST 2024:04:13:12:37:54 vertexvol N 4 2.53 2.91 2.96

#--------------------------------------
### Curvature Stats lh Sat Apr 13 12:37:54 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/surf  mris_curvature_stats -m
--writeCurvatureFiles -G -o ../stats/lh.curv.stats -F smoothwm 014_S_4401 lh curv sulc

            Toggling save flag on curvature files                    [ ok ]
                Outputting results using filestem   [ ../stats/lh.curv.stats ]
            Toggling save flag on curvature files                    [ ok ]
                               Setting surface   [ 014_S_4401/lh.smoothwm ]
                               Reading surface...                    [ ok ]
                                 Setting texture                   [ curv ]
                               Reading texture...                    [ ok ]
                                 Setting texture                   [ sulc ]
                               Reading texture...Gb_filter = 0
                        [ ok ]
      Calculating Discrete Principal Curvatures...
      Determining geometric order for vno faces... [####################] [ ok ]
                  Determining KH curvatures... [####################] [ ok ]
Determining k1k2 curvatures... [####################] [ ok ]
deltaViolations                        [ 222 ] Gb_filter = 0

WARN:    S lookup   min:                        -0.373363
WARN:    S explicit min:                        0.000000      vertex = 460
@#@FSTIME  2024:04:13:12:37:54 mris_curvature_stats N 11 e 1.82 S 0.13 U 1.90 P 111% M 178944 F 13 R 48463 W 0 c 11 w 15 I 1464 O 8168 L 2.53 2.91 2.96
@#@FSLOADPOST 2024:04:13:12:37:56 mris_curvature_stats N 11 2.53 2.91 2.96

#--------------------------------------
### Curvature Stats rh Sat Apr 13 12:37:56 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/surf  mris_curvature_stats -m
--writeCurvatureFiles -G -o ../stats/rh.curv.stats -F smoothwm 014_S_4401 rh curv sulc

            Toggling save flag on curvature files                    [ ok ]
                Outputting results using filestem   [ ../stats/rh.curv.stats ]
            Toggling save flag on curvature files                    [ ok ]
                               Setting surface   [ 014_S_4401/rh.smoothwm ]
                               Reading surface...                    [ ok ]
                                 Setting texture                   [ curv ]
                               Reading texture...                    [ ok ]
Setting texture                  [ sulc ]
                               Reading texture...Gb_filter = 0
                        [ ok ]
      Calculating Discrete Principal Curvatures...
      Determining geometric order for vno faces... [####################] [ ok ]
                  Determining KH curvatures... [####################] [ ok ]
Determining k1k2 curvatures... [####################] [ ok ]
deltaViolations                        [ 208 ] Gb_filter = 0

WARN:    S lookup   min:                        -0.164557
WARN:    S explicit min:                        0.000000      vertex = 1056
@#@FSTIME  2024:04:13:12:37:56 mris_curvature_stats N 11 e 1.82 S 0.13 U 1.92 P 112% M 177920 F 0 R 48246 W 0 c 7 w 6 I 0 O 8168 L 2.53 2.91 2.96
@#@FSLOADPOST 2024:04:13:12:37:58 mris_curvature_stats N 11 2.57 2.92 2.96
#--------------------------------------------------------
### Cortical ribbon mask Sat Apr 13 12:37:58 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri  mris_volmask --aseg_name aseg.presurf --label_left_white 2
--label_left_ribbon 3 --label_right_white 41 --label_right_ribbon 42 --save_ribbon 014_S_4401

SUBJECTS_DIR is /home/jaibhatoa/mri_processed loading
input data... Running hemis serially Processing left
hemi
computing distance to left white surface computing distance
to left pial surface Processing right hemi
computing distance to right white surface computing
distance to right pial surface  hemi masks overlap
voxels = 107
writing volume /home/jaibhatoa/mri_processed/014_S_4401/mri/ribbon.mgz
mris_volmask took 3.49 minutes  writing ribbon files
@#@FSTIME  2024:04:13:12:37:58 mris_volmask N 12 e 209.17 S 0.98 U 208.78 P 100% M 967648 F 8 R 516877 W 0 c 166 w 20 I 920 O 856 L 2.57 2.92 2.96
@#@FSLOADPOST 2024:04:13:12:41:27 mris_volmask N 12 2.33 2.56 2.80
#--------------------------------------------------------
### Cortical Parc 2 lh Sat Apr 13 12:41:27 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_ca_label -l ../label/lh.cortex.label -aseg ../mri/aseg.presurf.mgz -seed 1234 014_S_4401 lh ../surf/lh.sphere.reg
/usr/local/freesurfer/7.4.1/average/lh.CDaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs ../label/lh.aparc.a2009s.annot

setting seed for random number generator to 1234
using ../mri/aseg.presurf.mgz aseg volume to correct midline
7.4.1   7.4.1 reading atlas from /usr/local/freesurfer/7.4.1/average/lh.CDaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs...
reading color table from GCSA file....
average std = 3.0   using min determinant for regularization = 0.088 0 singular and 0
ill-conditioned covariance matrices regularized reading surface from
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.smoothwm... GCSA::load_default_data():
ninputs=1  sulc_only=0 which_norm=0 labeling surface...
24 labels changed using aseg relabeling using
gibbs priors...
000:   9044 changed, 129904 examined...
001:   2035 changed, 34647 examined...
002:    586 changed, 10844 examined...
003:    278 changed, 3374 examined...
004:    136 changed, 1599 examined...
005:     71 changed, 792 examined...
006:     38 changed, 430 examined...
007:     21 changed, 219 examined...
008:     16 changed, 115 examined...
009:     10 changed, 83 examined...
010:      6 changed, 48 examined...
011:      4 changed, 35 examined...
012:      3 changed, 18 examined...
013:      1 changed, 17 examined...
014:      0 changed, 7 examined...
13 labels changed using aseg
000: 235 total segments, 153 labels (2424 vertices) changed
001: 93 total segments, 11 labels (29 vertices) changed
002: 83 total segments, 1 labels (2 vertices) changed
003: 82 total segments, 0 labels (0 vertices) changed 10 filter
iterations complete (10 requested, 33 changed) rationalizing
unknown annotations with cortex label relabeling Medial_wall
label... relabeling unknown label...
1254 vertices marked for relabeling... 1254 labels changed
in reclassification. writing output to
../label/lh.aparc.a2009s.annot...
classification took 0 minutes and 12 seconds.
@#@FSTIME  2024:04:13:12:41:27 mris_ca_label N 11 e 11.84 S 1.38 U 10.82 P 103% M 1756040 F 0 R 764355 W 0 c 25 w 12 I 42432 O 2040 L 2.33 2.56 2.80
@#@FSLOADPOST 2024:04:13:12:41:39 mris_ca_label N 11 2.33 2.55 2.80
#--------------------------------------------------------
### Cortical Parc 2 rh Sat Apr 13 12:41:39 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_ca_label -l ../label/rh.cortex.label -aseg ../mri/aseg.presurf.mgz -seed 1234 014_S_4401 rh ../surf/rh.sphere.reg
/usr/local/freesurfer/7.4.1/average/rh.CDaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs ../label/rh.aparc.a2009s.annot

setting seed for random number generator to 1234
using ../mri/aseg.presurf.mgz aseg volume to correct midline
7.4.1   7.4.1 reading atlas from /usr/local/freesurfer/7.4.1/average/rh.CDaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs...
reading color table from GCSA file....
average std = 1.4   using min determinant for regularization = 0.021 0 singular and 0
ill-conditioned covariance matrices regularized reading surface from
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.smoothwm... GCSA::load_default_data():
ninputs=1  sulc_only=0 which_norm=0 labeling surface...
27 labels changed using aseg relabeling using
gibbs priors...
000:   8554 changed, 129260 examined...
001:   1950 changed, 33261 examined...
002:    566 changed, 10465 examined...
003:    278 changed, 3339 examined...
004:    112 changed, 1581 examined...
005:     55 changed, 658 examined...
006:     30 changed, 314 examined...
007:     14 changed, 174 examined...
008:      8 changed, 81 examined...
009:      4 changed, 52 examined...
010:      5 changed, 23 examined...
011:      0 changed, 28 examined...
39 labels changed using aseg
000: 214 total segments, 131 labels (2083 vertices) changed
001: 91 total segments, 9 labels (58 vertices) changed
002: 82 total segments, 0 labels (0 vertices) changed 10 filter
iterations complete (10 requested, 28 changed) rationalizing
unknown annotations with cortex label relabeling Medial_wall
label... relabeling unknown label...
1059 vertices marked for relabeling... 1059 labels changed
in reclassification. writing output to
../label/rh.aparc.a2009s.annot... classification took 0
minutes and 11 seconds.
@#@FSTIME  2024:04:13:12:41:39 mris_ca_label N 11 e 11.39 S 1.20 U 10.55 P 103% M 1655412 F 0 R 636954 W 0 c 23 w 15 I 42776 O 2032 L 2.33 2.55 2.80
@#@FSLOADPOST 2024:04:13:12:41:50 mris_ca_label N 11 2.43 2.57 2.80
#--------------------------------------------------------
### Cortical Parc 3 lh Sat Apr 13 12:41:50 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_ca_label -l ../label/lh.cortex.label -aseg ../mri/aseg.presurf.mgz -seed 1234 014_S_4401 lh ../surf/lh.sphere.reg
/usr/local/freesurfer/7.4.1/average/lh.DKTaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs ../label/lh.aparc.DKTatlas.annot

setting seed for random number generator to 1234
using ../mri/aseg.presurf.mgz aseg volume to correct midline 7.4.1   7.4.1 reading atlas from
/usr/local/freesurfer/7.4.1/average/lh.DKTaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs... reading color table from GCSA
file.... average std = 1.4   using min determinant for regularization = 0.020 0 singular and 383 ill-conditioned covariance
matrices regularized reading surface from /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.smoothwm...
GCSA::load_default_data(): ninputs=1  sulc_only=0 which_norm=0 labeling surface...
2154 labels changed using aseg relabeling using
gibbs priors...
000:   1843 changed, 129904 examined...
001:    419 changed, 8751 examined...
002:    131 changed, 2416 examined...
003:     64 changed, 750 examined...
004:     30 changed, 365 examined...
005:     14 changed, 149 examined...
006:     13 changed, 72 examined...
007:      8 changed, 77 examined...
008:      5 changed, 48 examined...
009:      2 changed, 31 examined...
010:      3 changed, 14 examined...
011:      2 changed, 19 examined...
012:      1 changed, 12 examined...
013:      1 changed, 7 examined...
014:      1 changed, 6 examined...
015:      1 changed, 8 examined...
016:      1 changed, 7 examined...
017:      1 changed, 7 examined...
018:      0 changed, 7 examined...
271 labels changed using aseg
000: 41 total segments, 8 labels (155 vertices) changed
001: 34 total segments, 1 labels (1 vertices) changed
002: 33 total segments, 0 labels (0 vertices) changed 10 filter
iterations complete (10 requested, 1 changed) rationalizing
unknown annotations with cortex label relabeling unknown
label... relabeling corpuscallosum label...
826 vertices marked for relabeling... 826 labels changed in
reclassification. writing output to
../label/lh.aparc.DKTatlas.annot...
classification took 0 minutes and 8 seconds.
@#@FSTIME  2024:04:13:12:41:50 mris_ca_label N 11 e 8.47 S 0.59 U 8.23 P 104% M 863476 F 0 R 322247 W 0 c 15 w 13 I 42976 O 2040 L 2.43 2.57 2.80
@#@FSLOADPOST 2024:04:13:12:41:59 mris_ca_label N 11 2.37 2.55 2.79
#--------------------------------------------------------
```

```
## Cortical Parc 3 rh Sat Apr 13 12:41:59 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_ca_label -l ../label/rh.cortex.label -aseg ../mri/aseg.presurf.mgz -seed 1234 014_S_4401 rh ../surf/rh.sphere.reg
/usr/local/freesurfer/7.4.1/average/rh.DKTaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs ../label/rh.aparc.DKTatlas.annot

setting seed for random number generator to 1234
using ../mri/aseg.presurf.mgz aseg volume to correct midline 7.4.1   7.4.1 reading atlas from
/usr/local/freesurfer/7.4.1/average/rh.DKTaparc.atlas.acfb40.noaparc.i12.2016-08-02.gcs... reading color table from GCSA
file...
average std = 0.9   using min determinant for regularization = 0.009 0 singular and 325
111-conditioned covariance matrices regularized reading surface from
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.smoothwm... GCSA::load_default_data():
ninputs=1  sulc_only=0 which_norm=0 labeling surface...
2298 labels changed using aseg relabeling using
gibbs priors...
000:  1981 changed, 129260 examined...
001:   504 changed, 9189 examined...
002:   165 changed, 2719 examined...
003:    81 changed, 950 examined...
004:    47 changed, 454 examined...
005:    21 changed, 245 examined...
006:    20 changed, 129 examined...
007:    12 changed, 108 examined...
008:    12 changed, 71 examined...
009:     9 changed, 58 examined...
010:     5 changed, 42 examined...
011:     3 changed, 27 examined...
012:     3 changed, 19 examined...
013:     3 changed, 16 examined...
014:     3 changed, 16 examined...
015:     7 changed, 21 examined...
016:     4 changed, 28 examined...
017:     4 changed, 21 examined...
018:     2 changed, 15 examined...
019:     3 changed, 15 examined...
020:     3 changed, 14 examined...
021:     3 changed, 15 examined...
022:     4 changed, 19 examined...
023:     3 changed, 20 examined...
024:     2 changed, 20 examined...
025:     0 changed, 8 examined...
469 labels changed using aseg
000: 58 total segments, 25 labels (267 vertices) changed
001: 33 total segments, 0 labels (0 vertices) changed 10 filter
iterations complete (10 requested, 1 changed) rationalizing
unknown annotations with cortex label relabeling unknown
label...
relabeling corpuscallosum label...
798 vertices marked for relabeling... 798 labels changed in
reclassification. writing output to
../label/rh.aparc.DKTatlas.annot... classification took 0
minutes and 8 seconds.
@#@FSTIME  2024:04:13:12:41:59 mris_ca_label N 11 e 8.43 S 0.57 U 8.23 P 104% M 938748 F 0 R 301215 W 0 c 20 w 12 I 42952 O 2024 L 2.37 2.55 2.79
@#@FSLOADPOST 2024:04:13:12:42:07 mris_ca_label N 11 2.42 2.55 2.79
#---------------------------------------------
## WM/GM Contrast lh Sat Apr 13 12:42:07 UTC 2024

/home/jaibhatoa/mri_processed/014_S_4401/scripts  pctsurfcon --s

014_S_4401 --lh-only

Log file is /home/jaibhatoa/mri_processed/014_S_4401/scripts/pctsurfcon.log Sat Apr 13
12:42:07 UTC 2024
setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed cd
/home/jaibhatoa/mri_processed/014_S_4401/scripts
/usr/local/freesurfer/7.4.1/bin/pctsurfcon
pctsurfcon 7.4.1
Linux vm4--jb--3d--mri--pre-processing 6.5.0-1016-gcp #16-22.04.1-Ubuntu SMP Sat Mar  9 00:58:37 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux FREESURFER_HOME
/usr/local/freesurfer/7.4.1
mri_vol2surf --mov /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz --hemi lh --noreshape --interp trilinear --projdist -1 --o /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7820/lh.wm.mgh --regheader 014_S_4401 --cortex srcvol =
/home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz srcreg unspecified srcregold = 0 srcwarp unspecified surf = white hemi = lh ProjDist = -1 reshape = 0 interp = trilinear
float2int = round
GetProjMax = 0
INFO: float2int code = 0
INFO: changing type to float
Done loading volume
Computing registration from header.
  Using /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz as target reference. -------- original
matrix ----------
 1.00000   0.00000   0.00000  -0.00001;  0.00000
0.00000   1.00000   0.00000;  0.00000  -1.00000
0.00000   0.00000;
 0.00000   0.00000   0.00000   1.00000;
-------- original matrix ----------
Loading label /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Reading surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Done reading source surface
Mapping Source Volume onto Source Subject Surface
Projecting -1 -1 1  1
-1 -1 -1 using old
Done mapping volume to surface
Number of source voxels hit = 76070
Masking with /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Writing to /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7820/lh.wm.mgh Dim: 129904
1 1 mri_vol2surf done
mri_vol2surf --mov /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz --hemi lh --noreshape --interp trilinear --o /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7820/lh.gm.mgh --projfrac 0.3 --regheader 014_S_4401 --cortex srcvol =
/home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz srcreg unspecified srcregold = 0 srcwarp unspecified surf = white hemi = lh ProjFrac = 0.3 thickness = thickness reshape = 0 interp = trilinear float2int = round
GetProjMax = 0
INFO: float2int code = 0
INFO: changing type to float
Done loading volume
Computing registration from header.
  Using /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz as target reference.
-------- original matrix ----------
 1.00000   0.00000   0.00000  -0.00001;  0.00000
0.00000   1.00000   0.00000;  0.00000  -1.00000
0.00000   0.00000;
 0.00000   0.00000   0.00000   1.00000;
-------- original matrix ----------
Loading label /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Reading surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white Done reading
source surface
Reading thickness /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.thickness Done
Mapping Source Volume onto Source Subject Surface
Projecting 0.3 0.3 1  1
0.3 0.3 0.3 using old
Done mapping volume to surface
Number of source voxels hit = 90636
Masking with /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Writing to /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7820/lh.gm.mgh Dim: 129904 1 1 mri_vol2surf done mri_concat /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7820/lh.wm.mgh /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7820/lh.gm.mgh
--paired-diff-norm --mul 100 --o /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.w-g.pct.
mgh ninputs = 2
Checking inputs
nframesatot = 2
Allocing output
Done allocing Combining
pairs nframes = 1
Multiplying by 100.000000
Writing to /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.w-g.pct.mgh mri_segstats --in /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.w-g.pct.mgh --annot 014_S_4401 lh aparc --sum
/home/jaibhatoa/mri_processed/014_S_4401/stats/lh.w-g.pct.stats --snr

7.4.1 cwd
cmdline mri_segstats --in /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.w-g.pct.mgh --annot 014_S_4401 lh aparc --sum /home/jaibhatoa/mri_processed/014_S_4401/stats/lh.w-g.pct.stats --snr sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64 user     jaibhatoa whitesurfname
white
UseRobust  0
Constructing seg from annotation

Reading annotation /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.annot Seg base 1000
MRISannot2seg(): nhits = 121208
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.w-g.pct.mgh
Vertex Area is 0.691718 mm^3
Generating list of segmentation ids
Found  36 segmentations
Computing statistics for each segmentation

Reporting on  35 segmentations
Using PrintSegStat mri_segstats done
Cleaning up
@#@FSTIME  2024:04:13:12:42:07 pctsurfcon N 3 e 2.65 S 0.43 U 2.62 P 115% M 262556 F 17 R 184877 W 0 c 13 w 86 I 2176 O 3176 L 2.42 2.55 2.79
@#@FSLOADPOST 2024:04:13:12:42:10 pctsurfcon N 3 2.38 2.55 2.79
#---------------------------------------
## WM/GM Contrast rh Sat Apr 13 12:42:10 UTC 2024

/home/jaibhatoa/mri_processed/014_S_4401/scripts  pctsurfcon --s

014_S_4401 --rh-only

Log file is /home/jaibhatoa/mri_processed/014_S_4401/scripts/pctsurfcon.log Sat Apr 13
12:42:10 UTC 2024
setenv SUBJECTS_DIR /home/jaibhatoa/mri_processed cd
/home/jaibhatoa/mri_processed/014_S_4401/scripts
/usr/local/freesurfer/7.4.1/bin/pctsurfcon
pctsurfcon 7.4.1
Linux vm4--jb--3d--mri--pre-processing 6.5.0-1016-gcp #16-22.04.1-Ubuntu SMP Sat Mar  9 00:58:37 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux FREESURFER_HOME
/usr/local/freesurfer/7.4.1
mri_vol2surf --mov /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz --hemi rh --noreshape --interp trilinear --projdist -1 --o /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7886/rh.wm.mgh --regheader 014_S_4401 --cortex srcvol =
/home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz srcreg unspecified srcregold = 0 srcwarp unspecified surf = white hemi = rh ProjDist = -1 reshape = 0 interp = trilinear float2int = round
GetProjMax = 0
INFO: float2int code = 0
INFO: changing type to float
Done loading volume
Computing registration from header.
  Using /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz as target reference.
-------- original matrix ----------
 1.00000   0.00000   0.00000  -0.00001;  0.00000
0.00000   1.00000   0.00000;  0.00000  -1.00000
0.00000   0.00000;
 0.00000   0.00000   0.00000   1.00000;
-------- original matrix ----------
Loading label /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Reading surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white Done reading
source surface
Mapping Source Volume onto Source Subject Surface
Projecting -1 -1 1  1
-1 -1 -1 using old
Done mapping volume to surface
Number of source voxels hit = 75987
Masking with /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Writing to /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7886/rh.wm.mgh Dim: 129260
1 1 mri_vol2surf done
mri_vol2surf --mov /home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz --hemi rh --noreshape --interp trilinear --o /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7886/rh.gm.mgh --projfrac 0.3 --regheader 014_S_4401 --cortex srcvol =
/home/jaibhatoa/mri_processed/014_S_4401/mri/rawavg.mgz srcreg unspecified srcregold = 0 srcwarp unspecified surf = white hemi = rh ProjFrac = 0.3 thickness = thickness reshape = 0 interp = trilinear float2int = round
GetProjMax = 0
INFO: float2int code = 0
INFO: changing type to float
Done loading volume
Computing registration from header.
  Using /home/jaibhatoa/mri_processed/014_S_4401/mri/orig.mgz as target reference.
-------- original matrix ----------
```

```
 1.00000   0.00000   0.00000  -0.00001;  0.00000
0.00000   1.00000   0.00000;  0.00000  -1.00000
0.00000   0.00000;
 0.00000   0.00000   0.00000   1.00000;
-------- original matrix ----------
Loading label /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Reading surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Done reading source surface
Reading thickness /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.thickness Done
Mapping Source Volume onto Source Subject Surface
Projecting 0.3 0.3 1
 1 0.3 0.3 0.3 using
old
Done mapping volume to surface
Number of source voxels hit = 90252
Masking with /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Writing to /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7886/rh.gm.mgh Dim: 129260 1 1 mri_vol2surf done mri_concat /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7886/rh.wm.mgh /home/jaibhatoa/mri_processed/014_S_4401/surf/tmp.pctsurfcon.7886/rh.gm.mgh
--paired-diff-norm --mul 100 --o /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.w-g.pct.
mgh ninputs = 2
Checking inputs
nframestot = 2
Allocing output
Done allocing Combining
pairs nframes = 1
Multiplying by 100.000000
Writing to /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.w-g.pct.mgh mri_segstats --in /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.w-g.pct.mgh --annot 014_S_4401 rh aparc --sum
/home/jaibhatoa/mri_processed/014_S_4401/stats/rh.w-g.pct.stats --snr

7.4.1 cwd
cmdline mri_segstats --in /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.w-g.pct.mgh --annot 014_S_4401 rh aparc --sum /home/jaibhatoa/mri_processed/014_S_4401/stats/rh.w-g.pct.stats --snr sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64 user     jaibhatoa whitesurfname
white
UseRobust  0
Constructing seg from annotation

Reading annotation /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.annot Seg base 2000
MRISannot2seg(): nhits = 120725
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.w-g.pct.mgh
Vertex Area is 0.700134 mm^3
Generating list of segmentation ids
Found  36 segmentations
Computing statistics for each segmentation

Reporting on  35 segmentations
Using PrintSegStat mri_segstats done
Cleaning up
@@FSTIME  2024:04:13:12:42:10 pctsurfcon N 3 e 2.64 S 0.41 U 2.64 P 116% M 261876 F 0 R 190744 W 0 c 16 w 79 I 0 O 3152 L 2.38 2.55 2.79
@@FSLOADPOST 2024:04:13:12:42:13 pctsurfcon N 3 2.38 2.55 2.79
#-----------------------------------------
### Relabel Hypointensities Sat Apr 13 12:42:13 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/mri  mri_relabel_hypointensities

aseg.presurf.mgz ../surf aseg.presurf.hypos.mgz

reading input surface ../surf/lh.white...
relabeling lh hypointensities... 1279 voxels
changed to hypointensity... reading input
surface ../surf/rh.white...
relabeling rh hypointensities... 1635 voxels
changed to hypointensity...
2908 hypointense voxels neighboring cortex changed
@@FSTIME  2024:04:13:12:42:13 mri_relabel_hypointensities N 3 e 11.75 S 0.61 U 11.66 P 104% M 466176 F 11 R 332240 W 0 c 26 w 20 I 1848 O 672 L 2.38 2.55 2.79
@@FSLOADPOST 2024:04:13:12:42:24 mri_relabel_hypointensities N 3 2.30 2.52 2.77
#-----------------------------------------
### APas-to-ASeg Sat Apr 13 12:42:24 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri

                mri_surf2volseg --o aseg.mgz --i aseg.presurf.hypos.mgz --fix-presurf-with-ribbon /home/jaibhatoa/mri_processed/014_S_4401/mri/ribbon.mgz --threads 2 --lh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label --lh-white /home/jaibh
               atoa/mri_processed/014_S_4401/surf/lh.white --lh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial --rh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label --rh-white /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
 --rh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial

SUBJECTS_DIR /home/jaibhatoa/mri_processed outvol
aseg.mgz
8 avail.processors, using 2
Loading aseg.presurf.hypos.mgz
Loading /home/jaibhatoa/mri_processed/014_S_4401/mri/ribbon.mgz
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Done loading
  0 128   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16 129  17  18  19
 20  21  22  23  24  25  26  27  28  29  30  31  32 130  33  34  35  36  37  38  39
 40  41  42  43 131  44  45  46  47  48  49  50  51  52  53  54  55 132  56  57  58  59
 60  61  62  63  64  65 133  66  67  68  69  70 134  71  72  73 135  74  75 136  76 137  77  78 138  79
80  139
81   82 140  83 141  84  85 142  86  87 143  88 144  89 145  90 146 147  91 148  92 149 150  93 151  94 152  95 153  96 154  97 155  98 156 157  99
158 100 159
101 160 161 102 162 103 163 104 164 105 165 106 166 107 167 108 168 109 169 170 110 171 172 111 173 174 112 175 176 113 177 178 179
180 114 181 182 183 184 185 186 115 187 188 189 190 191 192 193 194 195 196 197 198 199
200 201 202 203 204 205 206 207 208 209 210 116 211 212 213 214 215 216 217 218 219
220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 117 236 237 238 239
240 241 242 243 244 245 246 247 248 249 250 251 252 253 118 254 255 119
120 121 122 123 124 125 126 127
nrelabeled = 0 ndotcheck = 0
Starting Surf2VolSeg free free
done
#VMPC# mri_surf2volseg VmPeak  922964 mri_surf2volseg done
@@FSTIME  2024:04:13:12:42:24 mri_surf2volseg N 20 e 5.79 S 0.54 U 7.42 P 137% M 872644 F 8 R 246273 W 0 c 59 w 23 I 1424 O 704 L 2.30 2.52 2.77
@@FSLOADPOST 2024:04:13:12:42:30 mri_surf2volseg N 20 2.43 2.54 2.78  mri_brainvol_stats --subject

014_S_4401

ComputeBrainVolumeStats2 Voxel Vol=1, KeepCSF=1
  #CBVS2 MaskVol             1491153.0
  #CBVS2 BrainSegVol         1106350.0
  #CBVS2 BrainSegVolNotVent  1074945.0
  #CBVS2 SupraTentVol         987547.0
  #CBVS2 SupraTentVolNotVent  956142.0
  #CBVS2 lhCtxGM              230477.7
  #CBVS2 rhCtxGM              234939.5
  #CBVS2 lhCerebralWM         219845.5
  #CBVS2 rhCerebralWM         219161.5
  #CBVS2 SubCortGMVol          53449.0
  #CBVS2 CerebellumVol        118803.0
  #CBVS2 CerebellumGMVol       96875.0
  #CBVS2 VentChorVol           27337.0
  #CBVS2 3rd4th5thCSF           4068.0
  #CBVS2 AllCSF                31405.0
  #CBVS2 CCVol                  4831.0
@@FSTIME  2024:04:13:12:42:30 mri_brainvol_stats N 2 e 2.64 S 0.23 U 3.11 P 126% M 222796 F 25 R 111577 W 0 c 5 w 36 I 4312 O 8 L 2.43 2.54 2.78
@@FSLOADPOST 2024:04:13:12:42:33 mri_brainvol_stats N 2 2.48 2.55 2.78
#-----------------------------------------
### AParc-to-ASeg aparc Sat Apr 13 12:42:33 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri

 mri_surf2volseg --o aparc+aseg.mgz --label-cortex --i aseg.mgz --threads 2 --lh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.annot 1000 --lh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label --lh-white /home/ja
ibhatoa/mri_processed/014_S_4401/surf/lh.white --lh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial --rh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.annot 2000 --rh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/ rh.cortex.label --rh-white
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white --rh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial

SUBJECTS_DIR /home/jaibhatoa/mri_processed outvol
aparc+aseg.mgz 8 avail.processors, using 2
Loading aseg.mgz
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Ripping lh vertices labeled not in lh.cortex.label   ripped 8696
vertices from lh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.annot
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Ripping rh vertices labeled not in rh.cortex.label   ripped 8535
vertices from rh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.annot
Done loading
  0 128   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19
 20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39
 40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59
 60  61  62  63  64  65  66  67  68  69 129  70  71  72 130  73 131  74  75 132  76 133  77 134  78 135 136  79
137  80 138  81 139
 82 140  83 141 142  84 143  85 144  86 145 146  87 147  88 148 149  89 150  90 151  91 152 153  92 154  93 155  94 156  95 157  96 158  97 159
 98 160  99
161 100 101 162 102 163 103 104 164 105 165 106 107 166 108 167 109 110 168 111 112 169 113 170 114 171 115 172 116 173 117 174 118 175 176 119 177 178 120 179
121 180 181 122 182 123 183 184 124 185 186 125 187 188 189 190 191 192 193 194 195 196 197 198 199
200 201 202 203 204 205 126 206 207 208 209 210 211 212 213 214 215 216 217 218 219
220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239
240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 127 nrelabeled
= 0 ndotcheck = 16341 Starting Surf2VolSeg free free done
#VMPC# mri_surf2volseg VmPeak  906104 mri_surf2volseg done
@@FSTIME  2024:04:13:12:42:33 mri_surf2volseg N 25 e 43.24 S 0.46 U 81.91 P 190% M 855892 F 0 R 238875 W 0 c 106 w 16 I 0 O 808 L 2.48 2.55 2.78
@@FSLOADPOST 2024:04:13:12:43:16 mri_surf2volseg N 25 2.79 2.62 2.80
#-----------------------------------------
### AParc-to-ASeg aparc.a2009s Sat Apr 13 12:43:16 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/mri

 mri_surf2volseg --o aparc.a2009s+aseg.mgz --label-cortex --i aseg.mgz --threads 2 --lh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.a2009s.annot 11100 --lh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label --lh -white
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white --lh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial --rh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.a2009s.annot 12100 --rh-cortex-mask /home/jaibhatoa/mri_proc essed/014_S_4401/label/rh.cortex.label
--rh-white /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white --rh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial

SUBJECTS_DIR /home/jaibhatoa/mri_processed outvol
aparc.a2009s+aseg.mgz
8 avail.processors, using 2
Loading aseg.mgz
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Ripping lh vertices labeled not in lh.cortex.label   ripped 8696
vertices from lh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.a2009s.annot
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Ripping rh vertices labeled not in rh.cortex.label   ripped 8535
vertices from rh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.a2009s.annot Done loading
  0 128   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23
24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39
 40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59
 60  61  62  63  64  65  66  67  68  69 129  70  71  72 130  73 131  74  75 132  76 133  77 134  78 135 136  79
137  80 138  81 139
 82 140  83 141 142  84 143  85 144  86 145 146  87 147  88 148 149  89 150  90 151  91 152 153  92 154  93 155  94 156  95 157  96 158  97 159
 98  99
160 100 161 101 162 102 103 163 104 164 105 106 165 107 166 108 109 167 110 111 168 112 169 113 170 114 171 115 172 116 173 117 174 118 175 176 119 177 120 178 179
121 180 181 122 182 123 183 184 124 185 186 125 187 188 189 190 191 192 193 194 195 196 197 198 199
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 126 216 217 218 219
220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239
```

```
240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 127 nrelabeled
= 0 ndotcheck = 16341 Starting Surf2Volseg free free done
#VMPC# mri_surf2volseg VmPeak  906196 mri_surf2volseg done
@#@FSTIME  2024:04:13:12:43:16 mri_surf2volseg N 25 e 43.52 S 0.47 U 82.39 P 190% M 855764 F 0 R 242165 W 0 c 181 w 16 I 0 O 872 L 2.79 2.62 2.80
@#@FSLOADPOST 2024:04:13:12:44:00 mri_surf2volseg N 25 2.86 2.66 2.81
#--------------------------------------------
### AParc-to-ASeg aparc.DKTatlas Sat Apr 13 12:44:00 UTC 2024
/home/jaibhatoa/mri_processed/014_S_4401/mri

 mri_surf2volseg --o aparc.DKTatlas+aseg.mgz --label-cortex --i aseg.mgz --threads 2 --lh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.DKTatlas.annot 1000 --lh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label -lh-white
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white --lh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial --rh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.DKTatlas.annot 2000 --rh-cortex-mask /home/jaibhatoa/mri_ processed/014_S_4401/label/rh.cortex.label
--rh-white /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white --rh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial

SUBJECTS_DIR /home/jaibhatoa/mri_processed outvol
aparc.DKTatlas+aseg.mgz
8 avail.processors, using 2
Loading aseg.mgz
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Ripping lh vertices labeled not in lh.cortex.label   ripped 8696
vertices from lh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.DKTatlas.annot
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Ripping rh vertices labeled not in rh.cortex.label   ripped 8535
vertices from rh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.DKTatlas.annot Done loading
  0 128   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23
24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39
 40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59
 60  61  62  63  64  65  66  67  68  69 129  70  71  72 130  73  74 131  75 132  76 133  77 134  78 135  79
136 137  80 138  81 139
 82 140  83 141  84 142 143  85 144  86 145  87 146 147  88 148  89 149  90 150 151  91 152  92 153  93 154  94 155  95 156  96 157  97 158  98  99
159
100 160 101 161 102 162 103 104 163 105 164 106 107 165 108 109 166 110 111 167 112 113 168 114 169 115 170 116 171 117 172 118 173 174 119 175 120 176 177 121 178
122 179
180 123 181 124 182 125 183 126 184 185 186 127 187 188 189 190 191 192 193 194 195 196 197 198 199
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219
220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239
240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255
nrelabeled = 0 ndotcheck = 16341 Starting Surf2VolSeg free free done
#VMPC# mri_surf2volseg VmPeak  906104 mri_surf2volseg done
@#@FSTIME  2024:04:13:12:44:00 mri_surf2volseg N 25 e 42.60 S 0.44 U 81.75 P 192% M 855908 F 0 R 238918 W 0 c 99 w 16 I 0 O 800 L 2.86 2.66 2.81
@#@FSLOADPOST 2024:04:13:12:44:42 mri_surf2volseg N 25 3.04 2.74 2.83
#--------------------------------------------
### WMParc Sat Apr 13 12:44:42 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/mri

                  mri_surf2volseg --o wmparc.mgz --label-wm --i aparc+aseg.mgz --threads 2 --lh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.annot 3000 --lh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label --lh-white /home/jaib
                 hatoa/mri_processed/014_S_4401/surf/lh.white --lh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial --rh-annot /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.annot 4000 --rh-cortex-mask /home/jaibhatoa/mri_processed/014_S_4401/label/rh
.cortex.label --rh-white /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white --rh-pial /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial

SUBJECTS_DIR /home/jaibhatoa/mri_processed outvol
wmparc.mgz
8 avail.processors, using 2
Loading aparc+aseg.mgz
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.cortex.label
Ripping lh vertices labeled not in lh.cortex.label   ripped 8696
vertices from lh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/lh.aparc.annot
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.cortex.label
Ripping rh vertices labeled not in rh.cortex.label   ripped 8535
vertices from rh hemi
Loading /home/jaibhatoa/mri_processed/014_S_4401/label/rh.aparc.annot
Done loading
  0 128   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19
 20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39
 40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59
 60  61  62  63  64  65  66 129  67  68  69  70  71  72 130  73  74 131  75  76 132  77  78 133  79 134  80  81 135  82
136  83  84 137  85  86 138  87  88 139
 89  90 140  91  92 141  93  94 142  95 143  96 144  97  98 145  99
146 100 101 147 102 103 148 104 149 105 150 106 151 107 152 108 153 109 154 110 155 111 156 112 157 113 158 114 115 159 116 160 117 161 118
119
162 120 163 121 164 122 123 165 124 125 126 127 166 167 168 169 170 171 172 173 174 175 176 177 178 179
180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219
220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239
240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255
nrelabeled = 0 ndotcheck = 4485
Starting Surf2VolSeg free free
done
#VMPC# mri_surf2volseg VmPeak  906100 mri_surf2volseg done
@#@FSTIME  2024:04:13:12:44:42 mri_surf2volseg N 25 e 20.46 S 0.54 U 34.48 P 171% M 855744 F 0 R 236785 W 0 c 55 w 16 I 0 O 896 L 3.04 2.74 2.83
@#@FSLOADPOST 2024:04:13:12:45:03 mri_surf2volseg N 25 3.08 2.78 2.84

 mri_segstats --seed 1234 --seg mri/wmparc.mgz --sum stats/wmparc.stats --pv mri/norm.mgz --excludeid 0 --brainmask mri/brainmask.mgz --in mri/norm.mgz --in-intensity-name norm --in-intensity-units MR --subject 014_S_4401 --surf-wm-vol --ctab /usr/local
/freesurfer/7.4.1/WMParcStatsLUT.txt --etiv setting seed

for random number genererator to 1234

7.4.1 cwd
cmdline  mri_segstats  --seed  1234  --seg  mri/wmparc.mgz  --sum  stats/wmparc.stats  --pv  mri/norm.mgz  --excludeid  0  --brainmask  mri/brainmask.mgz  --in  mri/norm.mgz  --in-intensity-name  norm  --in-intensity-units  MR  --subject  014_S_4401  --surf-wm-vol  --ctab  /us
r/local/freesurfer/7.4.1/WMParcStatsLUT.txt --etiv sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64 user     jaibhatoa whitesurfname
white UseRobust  0
atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
Loading mri/wmparc.mgz
Getting Brain Volume Statistics
Loading mri/norm.mgz
Loading mri/norm.mgz
Voxel Volume is 1 mm^3
Generating list of segmentation ids
Found 390 segmentations
Computing statistics for each segmentation

Reporting on  70 segmentations
Using PrintSegStat mri_segstats done
@#@FSTIME  2024:04:13:12:45:03 mri_segstats N 24 e 360.40 S 1.03 U 374.00 P 104% M 239972 F 0 R 1206939 W 0 c 739 w 7 I 56 O 24 L 3.08 2.78 2.84
@#@FSLOADPOST 2024:04:13:12:51:03 mri_segstats N 24 3.00 2.70 2.76
#--------------------------------------------
### Parcellation Stats lh Sat Apr 13 12:51:03 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_anatomical_stats -th3 -mgz -cortex ../label/lh.cortex.label -f ../stats/lh.aparc.stats
-b -a ../label/lh.aparc.annot -c ../label/aparc.annot.ctab 014_S_4401 lh white

computing statistics for each annotation in ../label/lh.aparc.annot. reading volume
/home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz... reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white... reading input pial surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/lh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness. Using TH3 vertex
volume calc
Total face volume 230126
Total vertex volume 229882 (mask=0)
Saving annotation colortable ../label/aparc.annot.ctab

table columns are:
    number of vertices     total surface
area (mm^2)     total gray matter volume
(mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
Gaussian curvature     folding index     intrinsic curvature index
structure name
atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1586   1062   2455  2.476 0.313     0.100      0.018        9     1.3  bankssts
 1020    656   1620  2.403 0.440     0.120      0.024       12     1.0  caudalanteriorcingulate
 3127   2167   5734  2.393 0.416     0.109      0.024       25     3.0  caudalmiddlefrontal
 2593   1741   3852  2.028 0.478     0.132      0.033       29     3.2  cuneus
  609    444   1906  3.117 0.723     0.118      0.029        4     0.8  entorhinal  4073   2897
8954  2.713 0.554     0.130     0.034       57     4.9  fusiform
 6304   4463  11268  2.288 0.414     0.120      0.024       69     6.4  inferiorparietal
 5032   3744  11426  2.592 0.628     0.129      0.032       71     6.4  inferiortemporal
 1504   1033   2426  2.143 0.748     0.125      0.035       20     1.9  isthmuscingulate
 7720   5281  13548  2.250 0.487     0.132      0.032      103     9.2  lateraloccipital
 4132   3016   8071  2.484 0.527     0.141      0.039       60     6.4  lateralorbitofrontal  4638   3196
7585  2.147 0.599     0.134     0.035       59     6.5  lingual
 3069   2160   5451  2.273 0.548     0.127      0.035       43     4.1  medialorbitofrontal
 5025   3661  12369  2.758 0.511     0.123      0.028       63     5.3  middletemporal
  949    635   1870  2.567 0.549     0.097      0.023        6     0.8  parahippocampal
 2182   1361   3559  2.380 0.497     0.109      0.035       22     2.8  paracentral
 1977   1359   3855  2.500 0.361     0.112      0.025       20     2.0  parsopercularis   989    758
2480  2.599 0.509     0.135     0.029       13     1.1  parsorbitalis
 1613   1129   2845  2.323 0.409     0.114      0.023       14     1.4  parstriangularis  2531   1754
2704  1.687 0.427     0.140     0.040       32     4.0  pericalcarine  5831   3871   9042  2.069 0.536
0.109     0.027       55     5.8  postcentral
 1768   1215   3212  2.351 0.621     0.119      0.028       21     2.0  posteriorcingulate
 7934   5167  14120  2.529 0.528     0.110      0.028       61     9.0  precentral
 5022   3538   8844  2.298 0.477     0.123      0.028       59     5.4  precuneus
 1078    778   2409  2.666 0.536     0.125      0.028       14     1.1  rostralanteriorcingulate
 7752   5834  15441  2.299 0.492     0.133      0.030      110     8.8  rostralmiddlefrontal
 9241   6553  20045  2.631 0.526     0.120      0.030       92    10.8  superiorfrontal
 6003   4155  10026  2.183 0.415     0.113      0.024       57     5.7  superiorparietal
 6127   4065  12596  2.701 0.555     0.101      0.023       51     5.4  superiortemporal  4814   3385
8753  2.348 0.427     0.120     0.027       55     5.0  supramarginal   306    264    894  2.578
0.433     0.167       0.030        9     0.4  frontalpole
  553    428   2495  4.025 0.743     0.147      0.045        9     0.9  temporalpole
  609    402    981  2.304 0.352     0.113      0.027        6     0.6  transversetemporal
 3497   2425   7047  2.719 0.709     0.125      0.038       36     5.4  insula
@#@FSTIME  2024:04:13:12:51:03 mris_anatomical_stats N 14 e 8.05 S 0.31 U 8.43 P 108% M 461084 F 8 R 129727 W 0 c 18 w 24 I 1448 O 24 L 3.00 2.70 2.76
@#@FSLOADPOST 2024:04:13:12:51:11 mris_anatomical_stats N 14 3.00 2.70 2.76  mris_anatomical_stats -th3 -mgz -cortex ../label/lh.cortex.label -f ../stats/lh.aparc.pial.stats -b -a

../label/lh.aparc.annot -c ../label/aparc.annot.ctab 014_S_4401 lh pial

computing statistics for each annotation in ../label/lh.aparc.annot. reading volume
/home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz...
reading input surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial... reading input pial
surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/lh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness.
Using TH3 vertex volume calc
Total face volume 230126
Total vertex volume 229882 (mask=0)
Saving annotation colortable ../label/aparc.annot.ctab

table columns are:     number of vertices
total surface area (mm^2)     total gray
matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
```

```
Gaussian curvature     folding index     intrinsic curvature index
structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1586    921   2455  2.476 0.313     0.108     0.029       24     1.6  bankssts
 1020    722   1620  2.403 0.440     0.138     0.042       36     1.5  caudalanteriorcingulate
 3127   2522   5734  2.393 0.416     0.121     0.022       33     2.9  caudalmiddlefrontal
 2593   2142   3852  2.028 0.478     0.141     0.034       33     3.5  cuneus
  609    783   1906  3.117 0.723     0.270     0.076       28     2.1  entorhinal  4073   3669
8954  2.713 0.554      0.171     0.049       93     7.7  fusiform
 6304   5342  11268  2.288 0.414     0.141     0.028       86     7.2  inferiorparietal
 5032   4860  11426  2.592 0.628     0.172     0.044      140     9.0  inferiortemporal
 1504   1315   2426  2.143 0.748     0.195     0.066       53     4.3  isthmuscingulate
 7720   6680  13548  2.250 0.487     0.149     0.034      171    11.0  lateraloccipital
 4132   3471   8071  2.484 0.527     0.161     0.045       95     7.3  lateralorbitofrontal  4638   4025
7585  2.147 0.599      0.159     0.045       96     7.8  lingual
 3069   2664   5451  2.273 0.548     0.153     0.041       56     4.4  medialorbitofrontal  5025   5182
12369  2.758 0.511      0.170     0.037       90     8.0  middletemporal
  949    856   1870  2.567 0.549     0.174     0.049       15     1.9  parahippocampal
 2182   1552   3559  2.380 0.497     0.098     0.020       15     1.7  paracentral
 1977   1726   3855  2.500 0.361     0.140     0.029       19     2.5  parsopercularis
  989   1128   2480  2.599 0.509     0.179     0.037       12     1.7  parsorbitalis
 1613   1303   2845  2.323 0.409     0.143     0.031       25     2.0  parstriangularis
 2531   1505   2704  1.687 0.427     0.123     0.034       55     3.4  pericalcarine
 5831   4790   9042  2.069 0.536     0.119     0.021       50     4.9  postcentral
 1768   1520   3212  2.351 0.621     0.156     0.046       25     3.2  posteriorcingulate
 7934   5847  14120  2.529 0.528     0.101     0.019       65     5.7  precentral
 5022   4066   8844  2.298 0.477     0.144     0.032       82     6.5  precuneus
 1078   1063   2409  2.666 0.536     0.200     0.061       55     2.3  rostralanteriorcingulate
 7752   7250  15441  2.299 0.492     0.165     0.035      140    11.0  rostralmiddlefrontal  9241   8260
20045  2.631 0.526      0.141     0.031      113    11.0  superiorfrontal
 6003   4963  10026  2.183 0.415     0.133     0.025       68     5.8  superiorparietal
 6127   5102  12596  2.701 0.555     0.132     0.031       69     7.6  superiortemporal
 4814   3957   8753  2.348 0.427     0.136     0.028       57     5.5  supramarginal
  306    438    894  2.578 0.433     0.226     0.034        4     0.5  frontalpole
  553    810   2495  4.025 0.743     0.277     0.069       16     1.8  temporalpole
  609    459    981  2.304 0.352     0.127     0.025        5     0.7  transversetemporal
 3497   2603   7047  2.719 0.709     0.168     0.050       87     7.3  insula
@#@FSTIME  2024:04:13:12:51:11 mris_anatomical_stats N 14 e 8.10 S 0.32 U 8.52 P 109% M 461060 F 0 R 129745 W 0 c 26 w 18 I 0 O 24 L 3.00 2.70 2.76
@#@FSLOADPOST 2024:04:13:12:51:19 mris_anatomical_stats N 14 3.08 2.73 2.77
#----------------------------------------------
## Parcellation Stats rh Sat Apr 13 12:51:19 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_anatomical_stats -th3 -mgz -cortex ../label/rh.cortex.label -f ../stats/rh.aparc.stats
-b -a ../label/rh.aparc.annot -c ../label/aparc.annot.ctab 014_S_4401 rh white

computing statistics for each annotation in ../label/rh.aparc.annot. reading volume
/home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz... reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white... reading input pial surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/rh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness. Using TH3 vertex
volume calc
Total face volume 234921
Total vertex volume 234712 (mask=0)
Saving annotation colortable ../label/aparc.annot.ctab

table columns are:     number of vertices
total surface area (mm^2)     total gray
matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
Gaussian curvature     folding index     intrinsic curvature index
structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1467    984   2358  2.552 0.349     0.090     0.016        7     1.1  bankssts
 1111    805   1929  2.320 0.517     0.163     0.037       30     1.5  caudalanteriorcingulate
 3059   2167   6060  2.480 0.473     0.121     0.028       29     3.4  caudalmiddlefrontal
 2649   1777   4178  2.085 0.501     0.133     0.034       33     3.8  cuneus
  461    341   1589  3.058 0.887     0.130     0.035        4     0.7  entorhinal
 3899   2830   9163  2.769 0.637     0.128     0.033       49     5.1  fusiform
 7442   5383  14140  2.348 0.417     0.118     0.024       81     6.9  inferiorparietal
 4224   3155  10194  2.786 0.537     0.131     0.033       50     5.8  inferiortemporal
 1539   1080   2451  2.029 0.750     0.122     0.034       22     1.8  isthmuscingulate
 7414   5129  13200  2.301 0.532     0.138     0.034      100     9.9  lateraloccipital
 3663   2825   7734  2.488 0.444     0.149     0.040       57     5.8  lateralorbitofrontal  4943   3581
8393  2.100 0.625      0.148     0.041       66     7.9  lingual
 2762   1985   5082  2.266 0.533     0.124     0.031       39     3.4  medialorbitofrontal
 5302   4002  13968  2.873 0.531     0.131     0.030       66     6.5  middletemporal
  891    600   1817  2.616 0.584     0.107     0.025        7     0.8  parahippocampal
 2449   1536   4110  2.420 0.495     0.110     0.030       20     2.5  paracentral
 1695   1287   3790  2.594 0.455     0.139     0.032       22     2.1  parsopercularis
 1145    889   2736  2.532 0.554     0.139     0.028       14     1.3  parsorbitalis
 1831   1394   3840  2.434 0.439     0.127     0.031       21     2.1  parstriangularis
 2736   1863   3114  1.802 0.447     0.132     0.036       27     4.2  pericalcarine
 5235   3370   7645  2.045 0.569     0.106     0.025       44     5.2  postcentral
 1983   1375   3468  2.300 0.586     0.128     0.030       25     2.3  posteriorcingulate
 7799   5195  13770  2.448 0.513     0.117     0.031       65    10.1  precentral
 5370   3709   9555  2.425 0.485     0.116     0.026       54     5.4  precuneus
 1058    748   2064  2.579 0.354     0.130     0.031       21     1.3  rostralanteriorcingulate
 7231   5479  14574  2.334 0.499     0.133     0.031       96     8.9  rostralmiddlefrontal
 9103   6437  19262  2.542 0.575     0.119     0.028      105    10.7  superiorfrontal
 7275   4963  12113  2.186 0.402     0.109     0.022       74     6.2  superiorparietal
 5587   3809  11890  2.734 0.518     0.106     0.026       47     5.6  superiortemporal  4607   3227
8563  2.406 0.440      0.118     0.026       49     4.7  supramarginal   352    284   1038  2.715
0.467     0.174     0.043        9     0.7  frontalpole
  632    540   2881  3.407 0.762     0.161     0.042       11     1.1  temporalpole
  547    334    886  2.309 0.372     0.110     0.029        6     0.5  transversetemporal
 3264   2300   7157  2.948 0.858     0.129     0.041       35     5.3  insula
@#@FSTIME  2024:04:13:12:51:19 mris_anatomical_stats N 14 e 8.10 S 0.33 U 8.49 P 108% M 459004 F 0 R 129121 W 0 c 28 w 17 I 0 O 24 L 3.08 2.73 2.77
@#@FSLOADPOST 2024:04:13:12:51:28 mris_anatomical_stats N 14 2.99 2.72 2.76  mris_anatomical_stats -th3 -mgz -cortex ../label/rh.cortex.label -f ../stats/rh.aparc.pial.stats -b -a

../label/rh.aparc.annot -c ../label/aparc.annot.ctab 014_S_4401 rh pial

computing statistics for each annotation in ../label/rh.aparc.annot. reading volume
/home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz... reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial... reading input pial surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/rh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness.
Using TH3 vertex volume calc
Total face volume 234921
Total vertex volume 234712 (mask=0)
Saving annotation colortable ../label/aparc.annot.ctab table columns

are:

    number of vertices     total surface
area (mm^2)     total gray matter volume
(mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
Gaussian curvature     folding index     intrinsic curvature index
structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1467    847   2358  2.552 0.349     0.095     0.024       15     1.2  bankssts
 1111    902   1929  2.320 0.517     0.178     0.055       68     2.3  caudalanteriorcingulate
 3059   2531   6060  2.480 0.473     0.132     0.028       38     3.3  caudalmiddlefrontal
 2649   2331   4178  2.085 0.501     0.149     0.037       83     4.0  cuneus
  461    678   1589  3.058 0.887     0.295     0.078       36     1.6  entorhinal
 3899   3678   9163  2.769 0.637     0.175     0.048       96     8.1  fusiform
 7442   6521  14140  2.348 0.417     0.141     0.027      114     8.7  inferiorparietal
 4224   3995  10194  2.786 0.537     0.170     0.044      104     7.5  inferiortemporal
 1539   1342   2451  2.029 0.750     0.194     0.062       82     4.0  isthmuscingulate
 7414   6270  13200  2.301 0.532     0.158     0.044      387    12.2  lateraloccipital
 3663   3422   7734  2.488 0.444     0.176     0.047       92     6.9  lateralorbitofrontal  4943   4567
8393  2.100 0.625      0.164     0.044      136     8.7  lingual
 2762   2496   5082  2.266 0.533     0.154     0.039       45     4.3  medialorbitofrontal
 5302   5612  13968  2.873 0.531     0.173     0.038      106     9.2  middletemporal
  891    802   1817  2.616 0.584     0.183     0.052       15     2.4  parahippocampal
 2449   1794   4110  2.420 0.495     0.107     0.019       27     2.0  paracentral
 1695   1586   3790  2.594 0.455     0.158     0.038       30     2.3  parsopercularis  1145   1211
2736  2.532 0.554      0.188     0.038       24     1.9  parsorbitalis
 1831   1764   3840  2.434 0.439     0.158     0.032       22     2.6  parstriangularis  2736   1622
3114  1.802 0.447      0.101     0.025       33     2.6  pericalcarine  5235   4120   7645  2.045 0.569
0.110     0.019       56     4.1  postcentral
 1983   1626   3468  2.300 0.586     0.160     0.043       51     3.4  posteriorcingulate
 7799   5899  13770  2.448 0.513     0.108     0.021       83     6.8  precentral
 5370   4018   9555  2.425 0.485     0.129     0.028      105     6.0  precuneus
 1058    950   2064  2.579 0.354     0.175     0.045       52     1.8  rostralanteriorcingulate
 7231   6792  14574  2.334 0.499     0.164     0.034      130    10.4  rostralmiddlefrontal
 9103   8266  19262  2.542 0.575     0.145     0.031      123    11.2  superiorfrontal
 7275   6040  12113  2.186 0.402     0.129     0.022       69     6.5  superiorparietal
 5587   4711  11890  2.734 0.518     0.137     0.033       83     7.4  superiortemporal  4607   3748
8563  2.406 0.440      0.132     0.028       53     5.1  supramarginal   352    495   1038  2.715
0.467     0.224     0.039        5     0.5  frontalpole
  632   1110   2881  3.407 0.762     0.271     0.055       12     1.6  temporalpole
  547    428    886  2.309 0.372     0.113     0.021        4     0.5  transversetemporal
 3264   2334   7157  2.948 0.858     0.158     0.053      126     7.6  insula
@#@FSTIME  2024:04:13:12:51:28 mris_anatomical_stats N 14 e 8.12 S 0.27 U 8.56 P 108% M 458820 F 0 R 129116 W 0 c 38 w 20 I 0 O 24 L 2.99 2.72 2.76
@#@FSLOADPOST 2024:04:13:12:51:36 mris_anatomical_stats N 14 3.06 2.74 2.77
#----------------------------------------
## Parcellation Stats 2 lh Sat Apr 13 12:51:36 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_anatomical_stats -th3 -mgz -cortex ../label/lh.cortex.label -f ../stats/lh.aparc.a2009s.stats -b -a
../label/lh.aparc.a2009s.annot -c ../label/aparc.annot.a2009s.ctab 014_S_4401 lh white

computing statistics for each annotation in ../label/lh.aparc.a2009s.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz...
reading input surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white... reading input pial
surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/lh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness.
Using TH3 vertex volume calc
Total face volume 230126
Total vertex volume 229882 (mask=0)
Saving annotation colortable ../label/aparc.annot.a2009s.ctab

table columns are:     number of vertices
total surface area (mm^2)     total gray
matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
Gaussian curvature     folding index     intrinsic curvature index
structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1283    953   2390  2.260 0.502     0.141     0.031       18     1.6  G_and_S_frontomargin
 1524   1068   3348  2.526 0.599     0.130     0.029       20     1.7  G_and_S_occipital_inf
 1778   1134   3151  2.343 0.501     0.119     0.036       20     2.5  G_and_S_paracentral  1540   1062
3143  2.527 0.450      0.122     0.031       19     1.6  G_and_S_subcentral
  572    471   1476  2.515 0.459     0.169     0.037       17     0.9  G_and_S_transv_frontopol
 2074   1448   3821  2.479 0.456     0.115     0.025       19     2.1  G_and_S_cingul-Ant
```

```
 1366    921   2198  2.360 0.384     0.101     0.020        8     1.2  G_and_S_cingul-Mid-Ant
 1465    994   2540  2.421 0.541     0.107     0.023       11     1.4  G_and_S_cingul-Mid-Post
  603    423   1480  2.712 0.535     0.143     0.042       10     0.9  G_cingul-Post-dorsal
  324    237    641  2.176 0.898     0.146     0.050        7     0.5  G_cingul-Post-ventral
 2432   1603   3623  1.956 0.547     0.137     0.036       31     3.3  G_cuneus
 1281    886   2562  2.517 0.373     0.118     0.029       16     1.3  G_front_inf-Opercular   370    282
1142  2.912 0.463     0.152     0.035        8       0.5  G_front_inf-Orbital
  764    558   1775  2.461 0.348     0.124     0.029       10     0.7  G_front_inf-Triangul
 3788   2819   8607  2.453 0.478     0.131     0.031       53     4.1  G_front_middle
 6405   4588  16019  2.738 0.535     0.132     0.037       88     8.7  G_front_sup
  749    516   1674  2.907 0.675     0.132     0.049       12     1.1  G_Ins_lg_and_S_cent_ins
  655    486   2190  3.176 0.840     0.143     0.046       11     1.2  G_insular_short
 2193   1520   4734  2.444 0.439     0.127     0.028       32     2.4  G_occipital_middle  1286    896
2289  2.170 0.381     0.134     0.036       19     1.6  G_occipital_sup
 1607   1095   4313  2.976 0.510     0.129     0.032       28     1.9  G_oc-temp_lat-fusifor
 3309   2291   6060  2.206 0.636     0.152     0.044       56     5.6  G_oc-temp_med-Lingual
 1271    923   3676  2.893 0.686     0.124     0.039       16     1.8  G_oc-temp_med-Parahip  2416   1842
6040  2.591 0.572     0.152     0.046       50     4.0  G_orbital
 2165   1641   5105  2.430 0.451     0.144     0.034       41     2.6  G_pariet_inf-Angular
 2341   1683   5173  2.510 0.436     0.135     0.031       37     2.7  G_pariet_inf-Supramar
 1989   1443   4112  2.298 0.413     0.119     0.024       23     2.0  G_parietal_sup
 2109   1339   3834  2.230 0.532     0.118     0.033       26     2.3  G_postcentral
 2922   1744   6419  2.829 0.473     0.109     0.032       26     3.3  G_precentral  2236   1633
5187  2.472 0.494     0.134     0.032       40     2.6  G_precuneus   869    646   2106  2.424
0.571     0.133       0.043        17       1.1  G_rectus
  819    565   1368  2.353 0.697     0.133     0.048        9     1.7  G_subcallosal
  450    297    854  2.518 0.364     0.108     0.028        5     0.4  G_temp_sup-G_T_transv
 2191   1479   6250  3.012 0.503     0.124     0.033       33     2.4  G_temp_sup-Lateral
  740    496   1933  3.291 0.775     0.084     0.021        3     0.6  G_temp_sup-Plan_polar
  913    611   1774  2.536 0.401     0.098     0.021        6     0.7  G_temp_sup-Plan_tempo  2508   1947
6795  2.675 0.674     0.144     0.039       49     3.7  G_temporal_inf
 2749   2107   8473  2.946 0.487     0.141     0.037       50     3.3  G_temporal_middle
  283    193    447  2.361 0.443     0.103     0.019        2     0.2  Lat_Fis-ant-Horizont
  199    143    320  2.258 0.416     0.102     0.013        1     0.1  Lat_Fis-ant-Vertical
 1095    745   1331  2.142 0.396     0.102     0.020        5     1.1  Lat_Fis-post
 1971   1339   3020  1.999 0.447     0.145     0.040       31     2.7  Pole_occipital
 1446   1165   5141  3.339 0.782     0.149     0.040       23     2.2  Pole_temporal  3152   2192
3581  1.804 0.464     0.124     0.032       30     4.0  S_calcarine
 3380   2360   4186  2.017 0.550     0.109     0.026       20     4.0  S_central
 1073    705   1405  2.150 0.476     0.088     0.014        4     0.7  S_cingul-Marginalis
  611    425    919  2.483 0.416     0.115     0.027        4     0.7  S_circular_insula_ant
 1408    909   2026  2.539 0.494     0.088     0.018        6     1.2  S_circular_insula_inf
 1853   1211   2547  2.450 0.405     0.103     0.023        8     1.9  S_circular_insula_sup
  912    662   1515  2.466 0.458     0.127     0.031        9     1.3  S_collat_transv_ant
  310    215    454  2.178 0.325     0.130     0.028        4     0.4  S_collat_transv_post
 1941   1347   2985  2.224 0.348     0.108     0.022       13     1.8  S_front_inf
 1740   1394   3591  2.214 0.506     0.141     0.033       29     2.2  S_front_middle
 2736   1877   4553  2.424 0.452     0.101     0.020       19     2.4  S_front_sup
  305    210    357  1.991 0.289     0.118     0.022        2     0.4  S_interm_prim-Jensen
 2516   1697   3342  2.065 0.391     0.101     0.020       15     2.1  S_intrapariet_and_P_trans
 1561   1072   2037  2.138 0.344     0.123     0.026       13     1.7  S_oc_middle_and_Lunatus
 1100    736   1457  2.145 0.324     0.105     0.019        6     0.9  S_oc_sup_and_transversal
  968    666   1515  2.240 0.440     0.117     0.026       10     1.0  S_occipital_ant
  838    587   1345  2.540 0.386     0.124     0.031        7     0.9  S_oc-temp_lat
 2075   1403   2974  2.335 0.426     0.102     0.019       11     1.7  S_oc-temp_med_and_Lingual
  375    260    439  1.921 0.263     0.114     0.016        2     0.3  S_orbital_lateral
  741    506    948  2.244 0.595     0.115     0.024        5     0.9  S_orbital_med-olfact
 1558   1133   2691  2.400 0.415     0.134     0.032       16     2.2  S_orbital-H_Shaped
 2290   1561   3125  2.151 0.370     0.110     0.022       17     2.1  S_parieto_occipital
 1346    840   1351  1.935 0.665     0.120     0.030       19     1.4  S_pericallosal
 2219   1501   2761  2.015 0.387     0.106     0.021       14     2.2  S_postcentral
 1497    993   2342  2.338 0.377     0.094     0.019        8     1.3  S_precentral-inf-part
 1439    953   1977  2.299 0.429     0.093     0.019        6     1.3  S_precentral-sup-part
  572    427    796  2.069 0.403     0.142     0.028        7     0.7  S_suborbital
  977    705   1524  2.317 0.401     0.134     0.031        9     1.3  S_subparietal
 1821   1231   2466  2.285 0.343     0.102     0.018        9     1.6  S_temporal_inf
 6451   4328   9603  2.386 0.384     0.101     0.019       39     5.5  S_temporal_sup
  393    263    539  2.191 0.363     0.094     0.017        1     0.3  S_temporal_transverse
@#@FSTIME  2024:04:13:12:51:36 mris_anatomical_stats N 14 e 8.40 S 0.29 U 8.85 P 108% M 460836 F 0 R 129745 W 0 c 30 w 23 I 0 O 40 L 3.06 2.74 2.77
@#@FSLOADPOST 2024:04:13:12:51:44 mris_anatomical_stats N 14 3.05 2.75 2.77
#--------------------------------------------
### Parcellation Stats 2 rh Sat Apr 13 12:51:44 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_anatomical_stats -th3 -mgz -cortex ../label/rh.cortex.label -f ../stats/rh.aparc.a2009s.stats -b -a
../label/rh.aparc.a2009s.annot -c ../label/aparc.annot.a2009s.ctab 014_S_4401 rh white

computing statistics for each annotation in ../label/rh.aparc.a2009s.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz... reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white... reading input pial surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/rh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness.
Using TH3 vertex volume calc
Total face volume 234921
Total vertex volume 234712 (mask=0)
Saving annotation colortable ../label/aparc.annot.a2009s.ctab

table columns are:     number of vertices
total surface area (mm^2)     total gray
matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
Gaussian curvature     folding index     intrinsic curvature index
structure name atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
  776    635   1705  2.356 0.549     0.155     0.037       12     1.4  G_and_S_frontomargin
 1498   1026   3314  2.572 0.684     0.135     0.030       20     1.9  G_and_S_occipital_inf  1534    938
2778  2.430 0.491     0.109     0.030       15     1.5  G_and_S_paracentral
 1454   1014   2791  2.504 0.522     0.136     0.035       16     2.1  G_and_S_subcentral
  872    691   2118  2.436 0.577     0.145     0.031       17     1.1  G_and_S_transv_frontopol  2687   1900
4602  2.353 0.421     0.112     0.026       31     2.9  G_and_S_cingul-Ant
 1475    998   2399  2.379 0.368     0.118     0.025       21     1.4  G_and_S_cingul-Mid-Ant
 1625   1080   2693  2.417 0.399     0.113     0.026       13     1.7  G_and_S_cingul-Mid-Post   646    472
1611  2.694 0.517     0.156     0.044       13     1.0  G_cingul-Post-dorsal
  320    248    763  2.295 0.758     0.144     0.042        8     0.5  G_cingul-Post-ventral
 2521   1669   3799  1.992 0.509     0.137     0.039       34     3.9  G_cuneus
 1196    977   3442  2.729 0.414     0.161     0.039       23     1.6  G_front_inf-Opercular   419    340
1157  2.565 0.404     0.150     0.038        8       0.5  G_front_inf-Orbital
  696    568   1831  2.591 0.370     0.152     0.039       12     1.0  G_front_inf-Triangul
 3506   2731   8972  2.550 0.517     0.147     0.038       60     4.8  G_front_middle
 5731   4102  14421  2.719 0.599     0.132     0.035       88     8.0  G_front_sup
  589    402   1712  3.676 0.792     0.115     0.033        6     0.7  G_Ins_lg_and_S_cent_ins   782    628
2484  3.134 1.005     0.175     0.060       14     2.0  G_insular_short
2379   1744   5331  2.403 0.427     0.132     0.031       42     2.5  G_occipital_middle  1531   1050
2737  2.224 0.395     0.124     0.026       20     1.5  G_occipital_sup
 1675   1183   4851  3.009 0.627     0.135     0.039       30     2.2  G_oc-temp_lat-fusifor
 3129   2266   5628  2.096 0.664     0.154     0.045       47     5.3  G_oc-temp_med-Lingual
 1076    783   3407  2.952 0.807     0.134     0.040       13     1.6  G_oc-temp_med-Parahip
 2435   2031   6858  2.644 0.468     0.159     0.042       49     3.8  G_orbital
 2408   1845   6222  2.553 0.426     0.136     0.029       37     2.7  G_pariet_inf-Angular
 2055   1485   4775  2.594 0.395     0.136     0.032       31     2.5  G_pariet_inf-Supramar
 2085   1467   4224  2.283 0.407     0.113     0.023       30     1.7  G_parietal_sup
 1784   1046   2828  2.094 0.509     0.105     0.027       20     1.7  G_postcentral  2926   1847
6453  2.679 0.470     0.131     0.044       35     5.0  G_precentral  1918   1346   4482  2.580
0.452     0.132       0.033        31       2.2  G_precuneus   948    704   2396  2.527 0.536
0.157     0.046       23     1.6  G_rectus
  586    422    979  2.254 0.647     0.142     0.049       11     1.3  G_subcallosal
  408    245    787  2.488 0.397     0.116     0.031        5     0.4  G_temp_sup-G_T_transv
 1858   1316   5527  3.045 0.502     0.129     0.041       27     2.4  G_temp_sup-Lateral
  782    543   1908  2.865 0.624     0.099     0.029        4     0.9  G_temp_sup-Plan_polar
  904    620   1574  2.429 0.345     0.091     0.015        4     0.6  G_temp_sup-Plan_tempo
 2039   1655   6747  2.969 0.558     0.151     0.040       37     3.2  G_temporal_inf
 2849   2276   9423  3.041 0.498     0.143     0.035       47     3.8  G_temporal_middle
  264    184    331  2.094 0.274     0.086     0.014        1     0.1  Lat_Fis-ant-Horizont
  189    145    399  2.925 0.486     0.122     0.029        1     0.2  Lat_Fis-ant-Vertical
 1426    943   1881  2.303 0.413     0.095     0.020        6     1.2  Lat_Fis-post
 3407   2401   5743  2.054 0.568     0.155     0.045       56     5.6  Pole_occipital  1567   1315
6165  3.326 0.662     0.159     0.047       27     3.4  Pole_temporal  2746   1916   3389  1.992 0.473
0.119     0.027       19     3.4  S_calcarine
 2936   2050   3375  1.896 0.546     0.104     0.023       14     3.2  S_central
 1333    906   1967  2.187 0.401     0.101     0.021       10     1.1  S_cingul-Marginalis
  637    455   1027  2.622 0.521     0.119     0.031        4     0.9  S_circular_insula_ant
 1266    802   1755  2.579 0.540     0.076     0.014        4     0.8  S_circular_insula_inf
 1331    894   1862  2.437 0.440     0.114     0.027        7     1.7  S_circular_insula_sup
  894    609   1381  2.498 0.456     0.101     0.018        5     0.7  S_collat_transv_ant
  404    280    534  2.165 0.370     0.121     0.025        2     0.5  S_collat_transv_post
 1871   1240   2655  2.289 0.374     0.106     0.022       11     1.8  S_front_inf
 1833   1352   3143  2.219 0.424     0.113     0.023       15     1.7  S_front_middle
 2872   2022   4780  2.327 0.457     0.106     0.021       21     2.7  S_front_sup
  477    322    526  2.006 0.336     0.110     0.032        3     0.6  S_interm_prim-Jensen
 3156   2139   4341  2.117 0.364     0.101     0.018       19     2.5  S_intrapariet_and_P_trans  1027    702   1230
2.138 0.425     0.128     0.028        9     1.3  S_oc_middle_and_Lunatus
 1523   1044   2071  2.213 0.306     0.111     0.022        9     1.4  S_oc_sup_and_transversal
 1108    792   1863  2.422 0.419     0.130     0.028       11     1.5  S_occipital_ant
 1041    710   1534  2.494 0.465     0.102     0.019        5     0.9  S_oc-temp_lat
 1762   1229   2694  2.448 0.417     0.111     0.022       12     1.7  S_oc-temp_med_and_Lingual
  433    320    588  1.881 0.331     0.118     0.020        3     0.4  S_orbital_lateral
  791    546   1082  2.200 0.492     0.117     0.028        6     0.9  S_orbital_med-olfact
 1283    931   2207  2.381 0.424     0.132     0.030       12     1.6  S_orbital-H_Shaped
 2512   1678   3505  2.310 0.456     0.113     0.023       20     2.6  S_parieto_occipital
 1548   1026   1481  1.752 0.661     0.137     0.033       27     1.7  S_pericallosal
 2177   1411   2515  2.008 0.392     0.092     0.017       10     1.7  S_postcentral
 1387    925   1946  2.355 0.390     0.102     0.019        7     1.3  S_precentral-inf-part
 1545   1018   2088  2.300 0.439     0.099     0.021        7     1.4  S_precentral-sup-part
  330    250    534  2.071 0.500     0.153     0.031        5     0.4  S_suborbital
 1220    880   2044  2.354 0.460     0.121     0.024        9     1.3  S_subparietal
 1703   1138   2352  2.534 0.390     0.112     0.025       10     1.8  S_temporal_inf
 6392   4338   9687  2.448 0.400     0.102     0.020       40     5.4  S_temporal_sup
  232    171    311  2.210 0.266     0.130     0.025        1     0.3  S_temporal_transverse
@#@FSTIME  2024:04:13:12:51:44 mris_anatomical_stats N 14 e 8.30 S 0.27 U 8.75 P 108% M 458944 F 0 R 129126 W 0 c 21 w 18 I 0 O 40 L 3.05 2.75 2.77
@#@FSLOADPOST 2024:04:13:12:51:53 mris_anatomical_stats N 14 3.05 2.75 2.78
#--------------------------------------------
### Parcellation Stats 3 lh Sat Apr 13 12:51:53 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_anatomical_stats -th3 -mgz -cortex ../label/lh.cortex.label -f ../stats/lh.aparc.DKTatlas.stats -b -a
../label/lh.aparc.DKTatlas.annot -c ../label/aparc.annot.DKTatlas.ctab 014_S_4401 lh white

computing statistics for each annotation in ../label/lh.aparc.DKTatlas.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz... reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white... reading input pial surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/lh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness. Using TH3 vertex
volume calc
Total face volume 230126
Total vertex volume 229882 (mask=0)
Saving annotation colortable ../label/aparc.annot.DKTatlas.ctab

table columns are:     number of vertices
total surface area (mm^2)     total gray
matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
Gaussian curvature     folding index     intrinsic curvature index
structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1716   1099   2879  2.440 0.446     0.112     0.024       19     1.6  caudalanteriorcingulate
```

```
 3470   2402   6437  2.412 0.419     0.109     0.024       29     3.3  caudalmiddlefrontal
 3414   2300   5118  2.057 0.470     0.127     0.030       36     3.9  cuneus
  538    392   1667  3.071 0.679     0.111     0.028        4     0.6  entorhinal
 3696   2595   8010  2.713 0.542     0.128     0.032       52     4.4  fusiform
 6257   4435  11183  2.286 0.413     0.122     0.025       72     6.5  inferiorparietal
 4968   3735  11718  2.627 0.657     0.134     0.034       73     6.6  inferiortemporal
 1504   1037   2440  2.153 0.742     0.125     0.033       19     1.9  isthmuscingulate
 7695   5275  13399  2.238 0.480     0.132     0.032      102     9.2  lateraloccipital
 4527   3332   9043  2.462 0.553     0.147     0.042       71     7.7  lateralorbitofrontal
 4749   3275   7762  2.142 0.597     0.134     0.035       61     6.6  lingual
 2547   1835   4851  2.294 0.551     0.128     0.036       40     3.4  medialorbitofrontal
 6737   4820  15064  2.674 0.502     0.117     0.026       74     6.7  middletemporal
 1001    677   2021  2.574 0.585     0.101     0.025        8     0.9  parahippocampal
 2597   1628   4335  2.411 0.515     0.108     0.034       26     3.3  paracentral
 1811   1244   3481  2.505 0.369     0.111     0.025       17     1.8  parsopercularis
 1015    746   2328  2.583 0.530     0.127     0.026       12     1.1  parsorbitalis
 1883   1309   3198  2.295 0.385     0.115     0.024       17     1.7  parstriangularis
 2485   1715   2668  1.701 0.429     0.140     0.040       32     3.9  pericalcarine
 6541   4354  10203  2.087 0.529     0.110     0.026       60     6.5  postcentral
 1971   1353   3450  2.325 0.613     0.119     0.028       22     2.2  posteriorcingulate
 7810   5072  13833  2.534 0.524     0.110     0.028       59     8.8  precentral
 4798   3392   8705  2.313 0.481     0.123     0.028       59     5.1  precuneus
 1533   1064   2919  2.538 0.572     0.124     0.028       18     1.6  rostralanteriorcingulate
 5864   4499  12724  2.359 0.494     0.133     0.030       82     6.7  rostralmiddlefrontal
 9821   7098  20899  2.555 0.551     0.125     0.030      111    11.9  superiorfrontal
 4693   3252   7685  2.168 0.409     0.111     0.023       44     4.5  superiorparietal
 7732   5215  16944  2.779 0.659     0.107     0.025       67     7.6  superiortemporal
 4393   3105   8012  2.344 0.447     0.119     0.026       49     4.5  supramarginal
  597    398    965  2.294 0.348     0.114     0.028        6     0.6  transversetemporal
 2845   1944   5942  2.811 0.656     0.116     0.033       28     3.6  insula
@#@FSTIME  2024:04:13:12:51:53 mris_anatomical_stats N 14 e 8.19 S 0.29 U 8.63 P 108% M 460912 F 0 R 129751 W 0 c 22 w 18 I 0 O 24 L 3.05 2.75 2.78
@#@FSLOADPOST 2024:04:13:12:52:01 mris_anatomical_stats N 14 3.04 2.76 2.78
#-----------------------------------------
### Parcellation Stats 3 rh Sat Apr 13 12:52:01 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401/scripts  mris_anatomical_stats -th3 -mgz -cortex ../label/rh.cortex.label -f ../stats/rh.aparc.DKTatlas.stats -b -a
../label/rh.aparc.DKTatlas.annot -c ../label/aparc.annot.DKTatlas.ctab 014_S_4401 rh white

computing statistics for each annotation in ../label/rh.aparc.DKTatlas.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz... reading input surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white... reading input pial surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial... reading input white surface
/home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
INFO: using ../label/rh.cortex.label as mask to calc cortex NumVert, SurfArea and MeanThickness. Using TH3 vertex
volume calc
Total face volume 234921
Total vertex volume 234712 (mask=0)
Saving annotation colortable ../label/aparc.annot.DKTatlas.ctab

table columns are:     number of vertices
total surface area (mm^2)      total gray
matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
integrated rectified mean curvature     integrated rectified
Gaussian curvature      folding index     intrinsic curvature index
structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1206    864   2068  2.325 0.517     0.160     0.036       31     1.6  caudalanteriorcingulate
 3162   2233   6257  2.495 0.468     0.122     0.029       30     3.5  caudalmiddlefrontal
 3159   2132   4961  2.095 0.490     0.130     0.032       36     4.3  cuneus
  443    328   1533  3.042 0.898     0.133     0.035        4     0.7  entorhinal
 3614   2567   7981  2.735 0.618     0.123     0.031       42     4.1  fusiform
 7321   5291  13804  2.343 0.413     0.118     0.024       81     6.9  inferiorparietal
 4679   3545  11916  2.817 0.578     0.134     0.034       59     6.9  inferiortemporal
 1499   1053   2413  2.043 0.748     0.122     0.034       21     1.7  isthmuscingulate
 7365   5100  12881  2.273 0.514     0.138     0.034       99     9.8  lateraloccipital
 3966   3103   8661  2.479 0.476     0.152     0.043       66     6.6  lateralorbitofrontal
 4810   3485   8163  2.102 0.625     0.149     0.041       64     7.8  lingual
 2285   1650   4459  2.300 0.579     0.139     0.039       41     3.6  medialorbitofrontal
 6436   4766  15920  2.822 0.520     0.125     0.028       73     7.4  middletemporal
  941    638   1921  2.616 0.603     0.109     0.025        7     0.9  parahippocampal
 2559   1607   4316  2.420 0.491     0.112     0.030       22     2.6  paracentral
 1883   1420   4171  2.621 0.460     0.137     0.033       23     2.3  parsopercularis  1062    815
2468  2.576 0.458     0.129     0.030       11     1.2  parsorbitalis
 1854   1385   3554  2.318 0.426     0.124     0.028       20     2.0  parstriangularis
 2756   1865   3134  1.806 0.447     0.130     0.037       27     4.0  pericalcarine
 5824   3760   8449  2.046 0.563     0.107     0.024       50     5.8  postcentral
 2183   1494   3809  2.312 0.584     0.126     0.030       27     2.6  posteriorcingulate
 7483   5000  13291  2.443 0.514     0.119     0.032       63     9.9  precentral
 5398   3750   9841  2.433 0.482     0.115     0.026       56     5.3  precuneus
 1387    989   2713  2.515 0.382     0.120     0.028       23     1.6  rostralanteriorcingulate
 5413   4116  11138  2.351 0.505     0.135     0.031       73     6.6  rostralmiddlefrontal 11170   7992  23082
2.495 0.569     0.120     0.028      129     13.1  superiorfrontal
 6069   4128  10142  2.182 0.406     0.109     0.021       62     5.1  superiorparietal
 7156   4959  16158  2.771 0.568     0.111     0.027       64     7.6  superiortemporal
 4387   3092   8222  2.418 0.425     0.117     0.026       45     4.6  supramarginal
  536    328    873  2.319 0.359     0.111     0.028        6     0.5  transversetemporal
 2719   1925   6416  3.072 0.834     0.121     0.033       24     3.8  insula
@#@FSTIME  2024:04:13:12:52:01 mris_anatomical_stats N 14 e 8.17 S 0.23 U 8.68 P 109% M 458864 F 0 R 129125 W 0 c 17 w 18 I 0 O 24 L 3.04 2.76 2.78
@#@FSLOADPOST 2024:04:13:12:52:09 mris_anatomical_stats N 14 2.95 2.75 2.78
#-----------------------------------------
### ASeg Stats Sat Apr 13 12:52:09 UTC 2024 /home/jaibhatoa/mri_processed/014_S_4401

 mri_segstats --seed 1234 --seg mri/aseg.mgz --sum stats/aseg.stats --pv mri/norm.mgz --empty --brainmask mri/brainmask.mgz --brain-vol-from-seg --excludeid 0 --excl-ctxgmwm --supratent --subcortgray --in mri/norm.mgz --in-intensity-name norm --in-inten sity-units MR --etiv --surf-wm-vol
--surf-ctx-vol --totalgray --euler --ctab /usr/local/freesurfer/7.4.1/ASegStatsLUT.txt --subject 014_S_4401 setting seed for random number genererator to 1234

7.4.1 cwd cmdline mri_segstats --seed 1234 --seg mri/aseg.mgz --sum stats/aseg.stats --pv mri/norm.mgz --empty --brainmask mri/brainmask.mgz --brain-vol-from-seg --excludeid 0 --excl-ctxgmwm --supratent --subcortgray --in mri/norm.mgz --in-intensity-name norm --i n-intensity-units MR
--etiv --surf-wm-vol --surf-ctx-vol --totalgray --euler --ctab /usr/local/freesurfer/7.4.1/ASegStatsLUT.txt --subject 014_S_4401 sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64 user     jaibhatoa whitesurfname
white UseRobust  0
atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 ) Computing euler
number
orig.nofix lheno =   -6, rheno = -28 orig.nofix
lhholes =    4, rhholes = 15
Loading mri/aseg.mgz
Getting Brain Volume Statistics
Loading mri/norm.mgz
Loading mri/norm.mgz
Voxel Volume is 1 mm^3
Generating list of segmentation ids
Found  50 segmentations
Computing statistics for each segmentation

Reporting on  45 segmentations
Using PrintSegStat
mri_segstats done
@#@FSTIME  2024:04:13:12:52:09 mri_segstats N 32 e 110.17 S 0.79 U 209.62 P 190% M 290612 F 0 R 751079 W 0 c 416 w 13 I 0 O 24 L 2.95 2.75 2.78
@#@FSLOADPOST 2024:04:13:12:53:59 mri_segstats N 32 3.23 2.96 2.85
/home/jaibhatoa/mri_processed/014_S_4401/label
#-----------------------------------------
### BA_exvivo Labels lh Sat Apr 13 12:53:59 UTC 2024

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA1_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA1_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA1_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA1_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4129 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4129 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 91
Checking for and removing duplicates
Writing label file ./lh.BA1_exvivo.label 4220
mri_label2label: Done

@#@FSTIME  2024:04:13:12:53:59 mri_label2label N 12 e 4.11 S 0.31 U 4.22 P 110% M 543496 F 0 R 156136 W 0 c 14 w 56 I 16464 O 248 L 3.23 2.96 2.85
@#@FSLOADPOST 2024:04:13:12:54:03 mri_label2label N 12 3.21 2.96 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA2_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA2_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA2_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA2_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 7909 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  7909 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 58
Checking for and removing duplicates
Writing label file ./lh.BA2_exvivo.label 7967
mri_label2label: Done
```

```
@#@FSTIME  2024:04:13:12:54:03 mri_label2label N 12 e 4.82 S 0.33 U 4.96 P 109% M 543596 F 0 R 156196 W 0 c 12 w 17 I 632 O 392 L 3.21 2.96 2.86
@#@FSLOADPOST 2024:04:13:12:54:08 mri_label2label N 12 3.21 2.96 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3a_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA3a_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3a_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA3a_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4077 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4077 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 66
Checking for and removing duplicates
Writing label file ./lh.BA3a_exvivo.label 4143
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:08 mri_label2label N 12 e 4.12 S 0.35 U 4.19 P 110% M 543344 F 0 R 156120 W 0 c 12 w 14 I 320 O 232 L 3.21 2.96 2.86
@#@FSLOADPOST 2024:04:13:12:54:12 mri_label2label N 12 3.20 2.97 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3b_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA3b_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3b_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA3b_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 5983 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  5983 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 112
Checking for and removing duplicates
Writing label file ./lh.BA3b_exvivo.label 6095
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:12 mri_label2label N 12 e 4.35 S 0.34 U 4.42 P 109% M 543792 F 0 R 156168 W 0 c 13 w 14 I 472 O 344 L 3.20 2.97 2.86
@#@FSLOADPOST 2024:04:13:12:54:17 mri_label2label N 12 3.10 2.95 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4a_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA4a_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4a_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA4a_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 5784 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  5784 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 339
Checking for and removing duplicates
Writing label file ./lh.BA4a_exvivo.label 6123
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:17 mri_label2label N 12 e 4.65 S 0.35 U 4.75 P 109% M 543712 F 0 R 156160 W 0 c 12 w 15 I 456 O 400 L 3.10 2.95 2.85
@#@FSLOADPOST 2024:04:13:12:54:21 mri_label2label N 12 3.09 2.95 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4p_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA4p_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4p_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA4p_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4070 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4070 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 232
Checking for and removing duplicates
Writing label file ./lh.BA4p_exvivo.label 4302
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:21 mri_label2label N 12 e 4.01 S 0.31 U 4.14 P 111% M 543536 F 0 R 156132 W 0 c 13 w 14 I 320 O 272 L 3.09 2.95 2.85
@#@FSLOADPOST 2024:04:13:12:54:25 mri_label2label N 12 3.08 2.95 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA6_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA6_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA6_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA6_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 13589 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  13589 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 500
Checking for and removing duplicates
Writing label file ./lh.BA6_exvivo.label 14089
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:25 mri_label2label N 12 e 5.84 S 0.33 U 5.97 P 107% M 544136 F 0 R 156299 W 0 c 16 w 14 I 1056 O 888 L 3.08 2.95 2.85
@#@FSLOADPOST 2024:04:13:12:54:31 mri_label2label N 12 3.08 2.95 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA44_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA44_exvivo.label --hemi lh --regmethod surface
```

```
srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA44_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA44_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4181 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4181 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 87
Checking for and removing duplicates
Writing label file ./lh.BA44_exvivo.label 4268
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:31 mri_label2label N 12 e 4.15 S 0.33 U 4.27 P 110% M 543552 F 0 R 156130 W 0 c 11 w 14 I 328 O 240 L 3.08 2.95 2.85
@#@FSLOADPOST 2024:04:13:12:54:35 mri_label2label N 12 3.07 2.95 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA45_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.BA45_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA45_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA45_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3422 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3422 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 165
Checking for and removing duplicates
Writing label file ./lh.BA45_exvivo.label 3587
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:35 mri_label2label N 12 e 4.01 S 0.38 U 4.07 P 111% M 543548 F 0 R 159376 W 0 c 14 w 15 I 272 O 224 L 3.07 2.95 2.86
@#@FSLOADPOST 2024:04:13:12:54:39 mri_label2label N 12 3.06 2.95 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.V1_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.V1_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.V1_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.V1_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4641 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4641 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 1605
Checking for and removing duplicates
Writing label file ./lh.V1_exvivo.label 6246
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:39 mri_label2label N 12 e 4.30 S 0.35 U 4.40 P 110% M 543588 F 0 R 156147 W 0 c 12 w 15 I 376 O 512 L 3.06 2.95 2.86
@#@FSLOADPOST 2024:04:13:12:54:44 mri_label2label N 12 3.06 2.95 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.V2_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.V2_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.V2_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.V2_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 8114 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  8114 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 2622
Checking for and removing duplicates
Writing label file ./lh.V2_exvivo.label 10736
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:44 mri_label2label N 12 e 5.09 S 0.35 U 5.17 P 108% M 543892 F 0 R 156216 W 0 c 17 w 14 I 664 O 872 L 3.06 2.95 2.86
@#@FSLOADPOST 2024:04:13:12:54:49 mri_label2label N 12 2.97 2.94 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.MT_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.MT_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.MT_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.MT_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2018 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2018 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 412
Checking for and removing duplicates
Writing label file ./lh.MT_exvivo.label 2430
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:49 mri_label2label N 12 e 3.58 S 0.29 U 3.72 P 112% M 543224 F 0 R 156088 W 0 c 10 w 17 I 168 O 200 L 2.97 2.94 2.85
@#@FSLOADPOST 2024:04:13:12:54:53 mri_label2label N 12 2.97 2.94 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.entorhinal_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.entorhinal_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.entorhinal_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.entorhinal_exvivo.label
regmethod = surface
```

```
srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1290 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1290 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 49
Checking for and removing duplicates
Writing label file ./lh.entorhinal_exvivo.label 1339
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:53 mri_label2label N 12 e 3.47 S 0.32 U 3.58 P 112% M 543436 F 1 R 156076 W 0 c 14 w 17 I 120 O 88 L 2.97 2.94 2.85
@#@FSLOADPOST 2024:04:13:12:54:56 mri_label2label N 12 2.98 2.94 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.perirhinal_exvivo.label --trgsubject 014_S_4401 --trglabel ./lh.perirhinal_exvivo.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.perirhinal_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.perirhinal_exvivo.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1199 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1199 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 51
Checking for and removing duplicates
Writing label file ./lh.perirhinal_exvivo.label 1250
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:56 mri_label2label N 12 e 3.42 S 0.31 U 3.54 P 112% M 543364 F 0 R 159396 W 0 c 13 w 14 I 112 O 80 L 2.98 2.94 2.85
@#@FSLOADPOST 2024:04:13:12:54:59 mri_label2label N 12 2.90 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG1.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.PG1.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG1.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.PG1.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 414 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  414 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 63
Checking for and removing duplicates
Writing label file ./lh.PG1.mpm.vpnl.label 477
mri_label2label: Done

@#@FSTIME  2024:04:13:12:54:59 mri_label2label N 12 e 3.27 S 0.36 U 3.36 P 113% M 543000 F 0 R 159385 W 0 c 10 w 14 I 40 O 40 L 2.90 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:03 mri_label2label N 12 2.90 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG2.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.PG2.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG2.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.PG2.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 703 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  703 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 59
Checking for and removing duplicates
Writing label file ./lh.PG2.mpm.vpnl.label 762
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:03 mri_label2label N 12 e 3.36 S 0.32 U 3.49 P 113% M 543392 F 0 R 156065 W 0 c 14 w 15 I 72 O 64 L 2.90 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:06 mri_label2label N 12 2.91 2.93 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG3.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.PG3.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG3.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.PG3.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1873 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1873 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 131
Checking for and removing duplicates
Writing label file ./lh.PG3.mpm.vpnl.label 2004
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:06 mri_label2label N 12 e 3.58 S 0.32 U 3.72 P 112% M 543300 F 0 R 156041 W 0 c 9 w 14 I 176 O 144 L 2.91 2.93 2.85
@#@FSLOADPOST 2024:04:13:12:55:10 mri_label2label N 12 2.83 2.91 2.84

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG4.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.PG4.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.PG4.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.PG4.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
```

```
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2101 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2101 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 276
Checking for and removing duplicates
Writing label file ./lh.PG4.mpm.vpnl.label 2377
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:10 mri_label2label N 12 e 3.66 S 0.32 U 3.78 P 112% M 543144 F 0 R 156001 W 0 c 16 w 15 I 200 O 184 L 2.83 2.91 2.84
@#@FSLOADPOST 2024:04:13:12:55:13 mri_label2label N 12 2.85 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc1.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.hOc1.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc1.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.hOc1.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3877 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3877 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 1366
Checking for and removing duplicates
Writing label file ./lh.hOc1.mpm.vpnl.label 5243
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:13 mri_label2label N 12 e 4.15 S 0.39 U 4.21 P 110% M 543460 F 0 R 156134 W 0 c 15 w 14 I 360 O 432 L 2.85 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:55:18 mri_label2label N 12 2.85 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc2.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.hOc2.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc2.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.hOc2.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2919 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2919 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 1124
Checking for and removing duplicates
Writing label file ./lh.hOc2.mpm.vpnl.label 4043
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:18 mri_label2label N 12 e 4.32 S 0.34 U 4.42 P 110% M 543416 F 0 R 156122 W 0 c 14 w 14 I 272 O 336 L 2.85 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:55:22 mri_label2label N 12 2.94 2.93 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc3v.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.hOc3v.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc3v.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.hOc3v.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1286 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1286 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 381
Checking for and removing duplicates
Writing label file ./lh.hOc3v.mpm.vpnl.label 1667
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:22 mri_label2label N 12 e 3.50 S 0.30 U 3.66 P 113% M 543208 F 0 R 155994 W 0 c 11 w 16 I 128 O 144 L 2.94 2.93 2.85
@#@FSLOADPOST 2024:04:13:12:55:25 mri_label2label N 12 2.94 2.93 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc4v.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./lh.hOc4v.mpm.vpnl.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.hOc4v.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.hOc4v.mpm.vpnl.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1006 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1006 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 237
Checking for and removing duplicates
Writing label file ./lh.hOc4v.mpm.vpnl.label 1243
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:26 mri_label2label N 12 e 3.40 S 0.34 U 3.51 P 113% M 543360 F 0 R 156062 W 0 c 7 w 16 I 96 O 104 L 2.94 2.93 2.85
@#@FSLOADPOST 2024:04:13:12:55:29 mri_label2label N 12 2.87 2.92 2.85

 mris_label2annot --s 014_S_4401 --ctab /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt --hemi lh --a mpm.vpnl --maxstatwinner --noverbose --l lh.FG1.mpm.vpnl.label --l lh.FG2.mpm.vpnl.label --l lh.FG3.mpm.vpnl.label --l lh.FG4.mpm.vpnl.label --l lh.hOc1.mpm.vpnl.label --l
lh.hOc2.mpm.vpnl.label --l lh.hOc3v.mpm.vpnl.label --l lh.hOc4v.mpm.vpnl.label

Reading ctab /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt
Number of ctab entries 9

7.4.1
cwd /home/jaibhatoa/mri_processed/014_S_4401/label
cmdline mris_label2annot --s 014_S_4401 --ctab /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt --hemi lh --a mpm.vpnl --maxstatwinner --noverbose --l lh.FG1.mpm.vpnl.label --l lh.FG2.mpm.vpnl.label --l lh.FG3.mpm.vpnl.label --l lh.FG4.mpm.vpnl.label --l lh.hOc1.mpm.vpnl.label --l
lh.hOc2.mpm.vpnl.label --l lh.hOc3v.mpm.vpnl.label --l lh.hOc4v.mpm.vpnl.label
sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64
user     jaibhatoa

subject 014_S_4401
hemi    lh
SUBJECTS_DIR /home/jaibhatoa/mri_processed
ColorTable /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt
AnnotName  mpm.vpnl
```

```
nlables 8
LabelThresh 0 0.000000
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig
Index Offset 0
0 reading lh.FG1.mpm.vpnl.label
 1 1376057 FG1
1 reading lh.FG2.mpm.vpnl.label
 2 1671935 FG2
2 reading lh.FG3.mpm.vpnl.label
 3 1671680 FG3
3 reading lh.FG4.mpm.vpnl.label
 4 1705837 FG4
4 reading lh.hOc1.mpm.vpnl.label
 5 25600 hOc1
5 reading lh.hOc2.mpm.vpnl.label
 6 255 hOc2
6 reading lh.hOc3v.mpm.vpnl.label
 7 16776960 hOc3v
7 reading lh.hOc4v.mpm.vpnl.label
 8 65535 hOc4v
Mapping unhit to unknown
Found 113567 unhit vertices
Writing annot to /home/jaibhatoa/mri_processed/014_S_4401/label/lh.mpm.vpnl.annot
@#@FSTIME  2024:04:13:12:55:29 mris_label2annot N 26 e 0.56 S 0.09 U 0.59 P 122% M 150968 F 7 R 41341 W 0 c 4 w 8 I 1304 O 2032 L 2.87 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:30 mris_label2annot N 26 2.87 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA1_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA1_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA1_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA1_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1014 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1014 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 37
Checking for and removing duplicates
Writing label file ./lh.BA1_exvivo.thresh.label 1051
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:30 mri_label2label N 12 e 3.44 S 0.30 U 3.59 P 113% M 543292 F 0 R 156074 W 0 c 12 w 14 I 96 O 72 L 2.87 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:33 mri_label2label N 12 2.87 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA2_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA2_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA2_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA2_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2092 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2092 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 14
Checking for and removing duplicates
Writing label file ./lh.BA2_exvivo.thresh.label 2106
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:33 mri_label2label N 12 e 3.70 S 0.33 U 3.80 P 111% M 543416 F 0 R 156084 W 0 c 16 w 14 I 192 O 120 L 2.87 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:37 mri_label2label N 12 2.88 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3a_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA3a_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3a_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA3a_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1504 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1504 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 7
Checking for and removing duplicates
Writing label file ./lh.BA3a_exvivo.thresh.label 1511
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:37 mri_label2label N 12 e 3.42 S 0.34 U 3.50 P 112% M 543316 F 0 R 156079 W 0 c 9 w 14 I 136 O 80 L 2.88 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:40 mri_label2label N 12 2.89 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3b_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA3b_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA3b_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA3b_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1996 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1996 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 51
Checking for and removing duplicates
Writing label file ./lh.BA3b_exvivo.thresh.label 2047
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:40 mri_label2label N 12 e 3.62 S 0.32 U 3.73 P 112% M 543112 F 0 R 156074 W 0 c 10 w 14 I 184 O 136 L 2.89 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:44 mri_label2label N 12 2.90 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4a_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA4a_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4a_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA4a_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2319 points in source label.
Starting surface-based mapping
```

```
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2319 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 207
Checking for and removing duplicates
Writing label file ./lh.BA4a_exvivo.thresh.label 2526
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:44 mri_label2label N 12 e 3.68 S 0.35 U 3.76 P 111% M 543424 F 0 R 156102 W 0 c 12 w 14 I 208 O 176 L 2.90 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:47 mri_label2label N 12 2.90 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4p_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA4p_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA4p_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA4p_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1549 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1549 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 96
Checking for and removing duplicates
Writing label file ./lh.BA4p_exvivo.thresh.label 1645
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:48 mri_label2label N 12 e 3.54 S 0.38 U 3.63 P 113% M 543552 F 0 R 159408 W 0 c 17 w 14 I 144 O 112 L 2.90 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:51 mri_label2label N 12 2.91 2.92 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA6_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA6_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA6_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA6_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 7035 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  7035 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 216
Checking for and removing duplicates
Writing label file ./lh.BA6_exvivo.thresh.label 7251
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:51 mri_label2label N 12 e 4.60 S 0.33 U 4.71 P 109% M 543720 F 0 R 159511 W 0 c 11 w 14 I 616 O 448 L 2.91 2.92 2.85
@#@FSLOADPOST 2024:04:13:12:55:56 mri_label2label N 12 2.83 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA44_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA44_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA44_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA44_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1912 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1912 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 31
Checking for and removing duplicates
Writing label file ./lh.BA44_exvivo.thresh.label 1943
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:56 mri_label2label N 12 e 3.73 S 0.29 U 3.89 P 111% M 543380 F 0 R 156008 W 0 c 12 w 14 I 168 O 112 L 2.83 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:55:59 mri_label2label N 12 2.85 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA45_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.BA45_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.BA45_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.BA45_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1151 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1151 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 39
Checking for and removing duplicates
Writing label file ./lh.BA45_exvivo.thresh.label 1190
mri_label2label: Done

@#@FSTIME  2024:04:13:12:55:59 mri_label2label N 12 e 3.38 S 0.34 U 3.48 P 113% M 543224 F 0 R 156065 W 0 c 9 w 14 I 104 O 80 L 2.85 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:56:03 mri_label2label N 12 2.85 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.V1_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.V1_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.V1_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.V1_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3405 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
```

```
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3405 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 1208
Checking for and removing duplicates
Writing label file ./lh.V1_exvivo.thresh.label 4613
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:03 mri_label2label N 12 e 4.04 S 0.34 U 4.15 P 111% M 543512 F 0 R 156119 W 0 c 12 w 16 I 304 O 384 L 2.85 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:56:07 mri_label2label N 12 2.86 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.V2_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.V2_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.V2_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.V2_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3334 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3334 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 1198
Checking for and removing duplicates
Writing label file ./lh.V2_exvivo.thresh.label 4532
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:07 mri_label2label N 12 e 4.09 S 0.32 U 4.22 P 111% M 543620 F 0 R 156115 W 0 c 15 w 14 I 296 O 376 L 2.86 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:56:11 mri_label2label N 12 2.87 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.MT_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.MT_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.MT_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.MT_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 513 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  513 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 107
Checking for and removing duplicates
Writing label file ./lh.MT_exvivo.thresh.label 620
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:11 mri_label2label N 12 e 3.30 S 0.34 U 3.40 P 113% M 543304 F 0 R 156060 W 0 c 14 w 14 I 48 O 56 L 2.87 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:56:14 mri_label2label N 12 2.88 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.entorhinal_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.entorhinal_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.entorhinal_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.entorhinal_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 470 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  470 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 16
Checking for and removing duplicates
Writing label file ./lh.entorhinal_exvivo.thresh.label 486
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:14 mri_label2label N 12 e 3.20 S 0.29 U 3.31 P 112% M 543024 F 1 R 156073 W 0 c 10 w 14 I 48 O 32 L 2.88 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:56:18 mri_label2label N 12 2.88 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/lh.perirhinal_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./lh.perirhinal_exvivo.thresh.label --hemi lh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/lh.perirhinal_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./lh.perirhinal_exvivo.thresh.label
regmethod = surface

srchemi = lh
trghemi = lh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 450 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  450 nlabel points
Performing mapping from target back to the source label 129904
Number of reverse mapping hits = 24
Checking for and removing duplicates
Writing label file ./lh.perirhinal_exvivo.thresh.label 474
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:18 mri_label2label N 12 e 3.28 S 0.32 U 3.42 P 114% M 543224 F 0 R 156052 W 0 c 7 w 14 I 48 O 32 L 2.88 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:56:21 mri_label2label N 12 2.81 2.90 2.85

 mris_label2annot --s 014_S_4401 --hemi lh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l lh.BA1_exvivo.label --l lh.BA2_exvivo.label --l lh.BA3a_exvivo.label --l lh.BA3b_exvivo.label --l lh.BA4a_exvivo.label --l lh.BA4p_exvivo.label --l lh.BA6_exvivo.label --l
lh.BA44_exvivo.label --l lh.BA45_exvivo.label --l lh.V1_exvivo.label --l lh.V2_exvivo.label --l lh.MT_exvivo.label --l lh.perirhinal_exvivo.label --l lh.entorhinal_exvivo.label --a BA_exvivo --maxstatwinner --noverbose

Reading ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
Number of ctab entries 15

7.4.1
cwd /home/jaibhatoa/mri_processed/014_S_4401/label
cmdline mris_label2annot --s 014_S_4401 --hemi lh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l lh.BA1_exvivo.label --l lh.BA2_exvivo.label --l lh.BA3a_exvivo.label --l lh.BA3b_exvivo.label --l lh.BA4a_exvivo.label --l lh.BA4p_exvivo.label --l lh.BA6_exvivo.label --l
lh.BA44_exvivo.label --l lh.BA45_exvivo.label --l lh.V1_exvivo.label --l lh.V2_exvivo.label --l lh.MT_exvivo.label --l lh.perirhinal_exvivo.label --l lh.entorhinal_exvivo.label --a BA_exvivo --maxstatwinner --noverbose
sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64
user     jaibhatoa

subject 014_S_4401
hemi    lh
SUBJECTS_DIR /home/jaibhatoa/mri_processed
ColorTable /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
AnnotName  BA_exvivo
nlabels 14
LabelThresh 0 0.000000
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig
Index Offset 0
0 reading lh.BA1_exvivo.label
 1 1530880 BA1_exvivo
1 reading lh.BA2_exvivo.label
 2 16749699 BA2_exvivo
2 reading lh.BA3a_exvivo.label
 3 16711680 BA3a_exvivo
3 reading lh.BA3b_exvivo.label
 4 3368703 BA3b_exvivo
4 reading lh.BA4a_exvivo.label
 5 1376196 BA4a_exvivo
5 reading lh.BA4p_exvivo.label
 6 13382655 BA4p_exvivo
```

```
6 reading lh.BA6_exvivo.label
 7 10036737 BA6_exvivo
7 reading lh.BA44_exvivo.label
 8 2490521 BA44_exvivo
8 reading lh.BA45_exvivo.label
 9 39283 BA45_exvivo
9 reading lh.V1_exvivo.label
10 3993 V1_exvivo
10 reading lh.V2_exvivo.label
11 8508928 V2_exvivo
11 reading lh.MT_exvivo.label
12 10027163 MT_exvivo
12 reading lh.perirhinal_exvivo.label
13 16422433 perirhinal_exvivo
13 reading lh.entorhinal_exvivo.label
14 16392598 entorhinal_exvivo
Mapping unhit to unknown
Found 89567 unhit vertices
Writing annot to /home/jaibhatoa/mri_processed/014_S_4401/label/lh.BA_exvivo.annot
@#@FSTIME  2024:04:13:12:56:21 mris_label2annot N 38 e 0.57 S 0.09 U 0.61 P 123% M 151536 F 0 R 41450 W 0 c 5 w 6 I 8 O 2032 L 2.81 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:56:21 mris_label2annot N 38 2.81 2.90 2.85

 mris_label2annot --s 014_S_4401 --hemi lh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l lh.BA1_exvivo.thresh.label --l lh.BA2_exvivo.thresh.label --l lh.BA3a_exvivo.thresh.label --l lh.BA3b_exvivo.thresh.label --l lh.BA4a_exvivo.thresh.label --l
lh.BA4p_exvivo.thresh.label --l lh.BA6_exvivo.thresh.label --l lh.BA44_exvivo.thresh.label --l lh.BA45_exvivo.thresh.label --l lh.V1_exvivo.thresh.label --l lh.V2_exvivo.thresh.label --l lh.MT_exvivo.thresh.label --l lh.perirhinal_exvivo.thresh.label --l lh.entorhinal_exvivo.thresh.label
--a BA_exvivo.thresh --maxstatwinner --noverbose

Reading ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
Number of ctab entries 15

7.4.1
cwd /home/jaibhatoa/mri_processed/014_S_4401/label
cmdline mris_label2annot --s 014_S_4401 --hemi lh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l lh.BA1_exvivo.thresh.label --l lh.BA2_exvivo.thresh.label --l lh.BA3a_exvivo.thresh.label --l lh.BA3b_exvivo.thresh.label --l lh.BA4a_exvivo.thresh.label --l
lh.BA4p_exvivo.thresh.label --l lh.BA6_exvivo.thresh.label --l lh.BA44_exvivo.thresh.label --l lh.BA45_exvivo.thresh.label --l lh.V1_exvivo.thresh.label --l lh.V2_exvivo.thresh.label --l lh.MT_exvivo.thresh.label --l lh.perirhinal_exvivo.thresh.label --l lh.entorhinal_exvivo.thresh.label
--a BA_exvivo.thresh --maxstatwinner --noverbose
sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64
user     jaibhatoa

subject 014_S_4401
hemi    lh
SUBJECTS_DIR /home/jaibhatoa/mri_processed
ColorTable /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
AnnotName  BA_exvivo.thresh
nlabels 14
Label1Thresh 0 0.000000
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.orig
Index Offset 0
0 reading lh.BA1_exvivo.thresh.label
 1 1530880 BA1_exvivo
1 reading lh.BA2_exvivo.thresh.label
 2 16749699 BA2_exvivo
2 reading lh.BA3a_exvivo.thresh.label
 3 16711680 BA3a_exvivo
3 reading lh.BA3b_exvivo.thresh.label
 4 3368703 BA3b_exvivo
4 reading lh.BA4a_exvivo.thresh.label
 5 1376196 BA4a_exvivo
5 reading lh.BA4p_exvivo.thresh.label
 6 13382655 BA4p_exvivo
6 reading lh.BA6_exvivo.thresh.label
 7 10036737 BA6_exvivo
7 reading lh.BA44_exvivo.thresh.label
 8 2490521 BA44_exvivo
8 reading lh.BA45_exvivo.thresh.label
 9 39283 BA45_exvivo
9 reading lh.V1_exvivo.thresh.label
10 3993 V1_exvivo
10 reading lh.V2_exvivo.thresh.label
11 8508928 V2_exvivo
11 reading lh.MT_exvivo.thresh.label
12 10027163 MT_exvivo
12 reading lh.perirhinal_exvivo.thresh.label
13 16422433 perirhinal_exvivo
13 reading lh.entorhinal_exvivo.thresh.label
14 16392598 entorhinal_exvivo
Mapping unhit to unknown
Found 105120 unhit vertices
Writing annot to /home/jaibhatoa/mri_processed/014_S_4401/label/lh.BA_exvivo.thresh.annot
@#@FSTIME  2024:04:13:12:56:22 mris_label2annot N 38 e 0.55 S 0.08 U 0.59 P 123% M 151264 F 0 R 41395 W 0 c 4 w 4 I 0 O 2032 L 2.81 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:56:22 mris_label2annot N 38 2.81 2.90 2.85

 mris_anatomical_stats -th3 -mgz -f ../stats/lh.BA_exvivo.stats -b -a ./lh.BA_exvivo.annot -c ./BA_exvivo.ctab 014_S_4401 lh white

computing statistics for each annotation in ./lh.BA_exvivo.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz...
reading input surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
reading input pial surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial...
reading input white surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
Using TH3 vertex volume calc
Total face volume 230126
Total vertex volume 229882 (mask=0)
Saving annotation colortable ./BA_exvivo.ctab

table columns are:
    number of vertices
    total surface area (mm^2)
    total gray matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
    integrated rectified mean curvature
    integrated rectified Gaussian curvature
    folding index
    intrinsic curvature index
    structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
 1093    671   2089  2.335 0.480     0.122     0.037       15     1.2  BA1_exvivo
 2993   2028   4562  2.139 0.453     0.114     0.026       26     3.2  BA2_exvivo
 1003    771   1071  1.771 0.301     0.132     0.029        7     1.4  BA3a_exvivo
 2268   1516   3068  1.867 0.503     0.104     0.025       19     2.0  BA3b_exvivo
 1896   1124   3532  2.618 0.502     0.113     0.043       21     2.8  BA4a_exvivo
 1595    985   2458  2.627 0.571     0.112     0.034       13     2.4  BA4p_exvivo
 9092   6148  18822  2.601 0.522     0.111     0.028       76     9.9  BA6_exvivo
 1987   1382   3890  2.517 0.397     0.118     0.028       22     2.0  BA44_exvivo
 2340   1666   4307  2.294 0.372     0.117     0.026       23     2.2  BA45_exvivo
 4199   2878   4949  1.717 0.485     0.137     0.039       56     6.5  V1_exvivo
 8496   5791  13929  2.156 0.485     0.140     0.036      117    11.3  V2_exvivo
 2189   1515   4452  2.437 0.552     0.126     0.028       26     2.5  MT_exvivo
  652    491   1570  2.854 0.690     0.132     0.036        8     0.8  perirhinal_exvivo
  534    375   1852  3.163 0.897     0.109     0.028        4     0.6  entorhinal_exvivo
@#@FSTIME  2024:04:13:12:56:22 mris_anatomical_stats N 12 e 3.09 S 0.30 U 3.50 P 123% M 456748 F 0 R 128679 W 0 c 21 w 17 I 0 O 24 L 2.81 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:56:25 mris_anatomical_stats N 12 2.83 2.90 2.85

 mris_anatomical_stats -th3 -mgz -f ../stats/lh.BA_exvivo.thresh.stats -b -a ./lh.BA_exvivo.thresh.annot -c ./BA_exvivo.thresh.ctab 014_S_4401 lh white

computing statistics for each annotation in ./lh.BA_exvivo.thresh.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz...
reading input surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
reading input pial surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.pial...
reading input white surface /home/jaibhatoa/mri_processed/014_S_4401/surf/lh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
Using TH3 vertex volume calc
Total face volume 230126
Total vertex volume 229882 (mask=0)
Saving annotation colortable ./BA_exvivo.thresh.ctab

table columns are:
    number of vertices
    total surface area (mm^2)
    total gray matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
    integrated rectified mean curvature
    integrated rectified Gaussian curvature
    folding index
    intrinsic curvature index
    structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
  740    449   1467  2.406 0.453     0.131     0.041       11     0.9  BA1_exvivo
 1292    854   1998  2.096 0.494     0.098     0.021       10     1.1  BA2_exvivo
  844    658    899  1.767 0.307     0.136     0.031        6     1.2  BA3a_exvivo
 1478    993   1652  1.634 0.317     0.095     0.021        9     1.3  BA3b_exvivo
 1927   1124   3437  2.678 0.519     0.111     0.042       21     3.0  BA4a_exvivo
 1246    794   1899  2.516 0.563     0.114     0.034        9     1.8  BA4p_exvivo
 5170   3435  10754  2.620 0.529     0.114     0.030       46     5.9  BA6_exvivo
 1217    864   2437  2.477 0.376     0.121     0.029       15     1.3  BA44_exvivo
  915    650   1997  2.455 0.351     0.122     0.028       10     0.9  BA45_exvivo
 4427   3034   5434  1.742 0.508     0.136     0.039       58     6.7  V1_exvivo
 4324   2992   6670  2.041 0.473     0.145     0.039       62     6.2  V2_exvivo
  573    396    974  2.255 0.421     0.140     0.032        9     0.7  MT_exvivo
  291    227    697  2.821 0.499     0.131     0.035        4     0.3  perirhinal_exvivo
  340    236   1139  3.320 0.675     0.095     0.020        2     0.2  entorhinal_exvivo
@#@FSTIME  2024:04:13:12:56:25 mris_anatomical_stats N 12 e 3.12 S 0.32 U 3.54 P 123% M 456704 F 0 R 128681 W 0 c 13 w 20 I 0 O 24 L 2.83 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:56:28 mris_anatomical_stats N 12 2.83 2.90 2.85
#--------------------------------------------
#@# BA_exvivo Labels rh Sat Apr 13 12:56:28 UTC 2024

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA1_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA1_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA1_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA1_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3962 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3962 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 37
Checking for and removing duplicates
Writing label file ./rh.BA1_exvivo.label 3999
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:28 mri_label2label N 12 e 4.02 S 0.33 U 4.14 P 111% M 541828 F 0 R 158983 W 0 c 13 w 44 I 16160 O 216 L 2.84 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:56:32 mri_label2label N 12 2.84 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA2_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA2_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA2_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA2_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
```

```
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 6687 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  6687 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 56
Checking for and removing duplicates
Writing label file ./rh.BA2_exvivo.label 6743
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:32 mri_label2label N 12 e 4.45 S 0.35 U 4.50 P 109% M 542036 F 0 R 159093 W 0 c 11 w 14 I 520 O 336 L 2.84 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:56:37 mri_label2label N 12 2.85 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3a_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA3a_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3a_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA3a_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3980 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3980 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 47
Checking for and removing duplicates
Writing label file ./rh.BA3a_exvivo.label 4027
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:37 mri_label2label N 12 e 4.10 S 0.34 U 4.21 P 111% M 542156 F 0 R 159043 W 0 c 16 w 16 I 312 O 208 L 2.85 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:56:41 mri_label2label N 12 2.95 2.92 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3b_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA3b_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3b_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA3b_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4522 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4522 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 40
Checking for and removing duplicates
Writing label file ./rh.BA3b_exvivo.label 4562
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:41 mri_label2label N 12 e 4.18 S 0.29 U 4.34 P 111% M 542368 F 0 R 159061 W 0 c 8 w 14 I 352 O 240 L 2.95 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:56:45 mri_label2label N 12 2.95 2.92 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4a_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA4a_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4a_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA4a_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 5747 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  5747 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 198
Checking for and removing duplicates
Writing label file ./rh.BA4a_exvivo.label 5945
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:45 mri_label2label N 12 e 4.52 S 0.36 U 4.63 P 110% M 542264 F 0 R 159072 W 0 c 18 w 14 I 440 O 360 L 2.95 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:56:50 mri_label2label N 12 2.95 2.93 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4p_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA4p_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4p_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA4p_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4473 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4473 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 161
Checking for and removing duplicates
Writing label file ./rh.BA4p_exvivo.label 4634
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:50 mri_label2label N 12 e 4.14 S 0.36 U 4.23 P 111% M 542016 F 0 R 159061 W 0 c 19 w 14 I 344 O 272 L 2.95 2.93 2.86
@#@FSLOADPOST 2024:04:13:12:56:54 mri_label2label N 12 2.96 2.93 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA6_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA6_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA6_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA6_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0
```

```
SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 12256 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  12256 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 515
Checking for and removing duplicates
Writing label file ./rh.BA6_exvivo.label 12771
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:54 mri_label2label N 12 e 5.52 S 0.31 U 5.65 P 108% M 542504 F 0 R 159190 W 0 c 17 w 14 I 936 O 776 L 2.96 2.93 2.86
@#@FSLOADPOST 2024:04:13:12:56:59 mri_label2label N 12 2.88 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA44_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA44_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA44_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA44_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 6912 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  6912 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 213
Checking for and removing duplicates
Writing label file ./rh.BA44_exvivo.label 7125
mri_label2label: Done

@#@FSTIME  2024:04:13:12:56:59 mri_label2label N 12 e 4.52 S 0.37 U 4.60 P 110% M 542232 F 0 R 159098 W 0 c 18 w 14 I 528 O 424 L 2.88 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:57:04 mri_label2label N 12 2.81 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA45_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.BA45_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA45_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA45_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 5355 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  5355 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 426
Checking for and removing duplicates
Writing label file ./rh.BA45_exvivo.label 5781
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:04 mri_label2label N 12 e 4.28 S 0.35 U 4.36 P 110% M 542188 F 0 R 159060 W 0 c 16 w 14 I 416 O 376 L 2.81 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:57:08 mri_label2label N 12 2.81 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.V1_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.V1_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.V1_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.V1_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 4727 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  4727 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 1843
Checking for and removing duplicates
Writing label file ./rh.V1_exvivo.label 6570
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:08 mri_label2label N 12 e 4.42 S 0.35 U 4.50 P 109% M 542124 F 0 R 159062 W 0 c 11 w 15 I 376 O 520 L 2.81 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:57:13 mri_label2label N 12 2.75 2.88 2.84

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.V2_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.V2_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.V2_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.V2_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 8016 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  8016 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 2340
Checking for and removing duplicates
Writing label file ./rh.V2_exvivo.label 10356
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:13 mri_label2label N 12 e 4.95 S 0.35 U 5.06 P 109% M 542440 F 0 R 159124 W 0 c 17 w 14 I 640 O 800 L 2.75 2.88 2.84
@#@FSLOADPOST 2024:04:13:12:57:18 mri_label2label N 12 2.77 2.88 2.84

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.MT_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.MT_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.MT_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.MT_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1932 points in source label.
Starting surface-based mapping
```

```
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1932 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 709
Checking for and removing duplicates
Writing label file ./rh.MT_exvivo.label 2641
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:18 mri_label2label N 12 e 3.69 S 0.33 U 3.82 P 112% M 542080 F 0 R 155701 W 0 c 14 w 15 I 160 O 224 L 2.77 2.88 2.84
@#@FSLOADPOST 2024:04:13:12:57:21 mri_label2label N 12 2.79 2.89 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.entorhinal_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.entorhinal_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.entorhinal_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.entorhinal_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1038 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1038 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 22
Checking for and removing duplicates
Writing label file ./rh.entorhinal_exvivo.label 1060
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:21 mri_label2label N 12 e 3.32 S 0.31 U 3.44 P 113% M 541740 F 0 R 155672 W 0 c 13 w 14 I 96 O 64 L 2.79 2.89 2.85
@#@FSLOADPOST 2024:04:13:12:57:25 mri_label2label N 12 2.80 2.89 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.perirhinal_exvivo.label --trgsubject 014_S_4401 --trglabel ./rh.perirhinal_exvivo.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.perirhinal_exvivo.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.perirhinal_exvivo.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 752 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  752 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 10
Checking for and removing duplicates
Writing label file ./rh.perirhinal_exvivo.label 762
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:25 mri_label2label N 12 e 3.41 S 0.37 U 3.49 P 113% M 542024 F 0 R 158985 W 0 c 13 w 14 I 72 O 48 L 2.80 2.89 2.85
@#@FSLOADPOST 2024:04:13:12:57:28 mri_label2label N 12 2.80 2.89 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG1.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.FG1.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG1.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.FG1.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 541 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  541 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 148
Checking for and removing duplicates
Writing label file ./rh.FG1.mpm.vpnl.label 689
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:28 mri_label2label N 12 e 3.36 S 0.34 U 3.49 P 113% M 541736 F 0 R 158976 W 0 c 10 w 16 I 56 O 56 L 2.80 2.89 2.85
@#@FSLOADPOST 2024:04:13:12:57:32 mri_label2label N 12 2.82 2.89 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG2.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.FG2.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG2.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.FG2.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 721 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  721 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 236
Checking for and removing duplicates
Writing label file ./rh.FG2.mpm.vpnl.label 957
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:32 mri_label2label N 12 e 3.32 S 0.36 U 3.39 P 113% M 541700 F 1 R 158992 W 0 c 13 w 15 I 72 O 80 L 2.82 2.89 2.85
@#@FSLOADPOST 2024:04:13:12:57:35 mri_label2label N 12 2.83 2.89 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG3.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.FG3.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG3.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.FG3.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1523 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
```

```
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1523 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 97
Checking for and removing duplicates
Writing label file ./rh.FG3.mpm.vpnl.label 1620
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:35 mri_label2label N 12 e 3.59 S 0.33 U 3.72 P 112% M 541860 F 0 R 162306 W 0 c 12 w 14 I 144 O 112 L 2.83 2.89 2.85
@#@FSLOADPOST 2024:04:13:12:57:39 mri_label2label N 12 2.85 2.89 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG4.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.FG4.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.FG4.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.FG4.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1586 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1586 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 248
Checking for and removing duplicates
Writing label file ./rh.FG4.mpm.vpnl.label 1834
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:39 mri_label2label N 12 e 3.57 S 0.36 U 3.66 P 112% M 541752 F 0 R 158949 W 0 c 9 w 15 I 152 O 144 L 2.85 2.89 2.85
@#@FSLOADPOST 2024:04:13:12:57:42 mri_label2label N 12 2.85 2.89 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc1.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.hOc1.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc1.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.hOc1.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3667 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3667 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 1552
Checking for and removing duplicates
Writing label file ./rh.hOc1.mpm.vpnl.label 5219
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:42 mri_label2label N 12 e 4.13 S 0.31 U 4.26 P 110% M 542088 F 0 R 159061 W 0 c 14 w 16 I 328 O 424 L 2.85 2.89 2.85
@#@FSLOADPOST 2024:04:13:12:57:46 mri_label2label N 12 2.86 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc2.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.hOc2.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc2.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.hOc2.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2719 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2719 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 886
Checking for and removing duplicates
Writing label file ./rh.hOc2.mpm.vpnl.label 3605
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:46 mri_label2label N 12 e 3.90 S 0.33 U 4.00 P 111% M 541820 F 0 R 155700 W 0 c 13 w 14 I 248 O 288 L 2.86 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:57:50 mri_label2label N 12 2.79 2.88 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc3v.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.hOc3v.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc3v.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.hOc3v.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1228 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1228 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 420
Checking for and removing duplicates
Writing label file ./rh.hOc3v.mpm.vpnl.label 1648
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:50 mri_label2label N 12 e 3.38 S 0.28 U 3.54 P 113% M 541624 F 0 R 155690 W 0 c 14 w 14 I 112 O 136 L 2.79 2.88 2.85
@#@FSLOADPOST 2024:04:13:12:57:54 mri_label2label N 12 2.81 2.88 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc4v.mpm.vpnl.label --trgsubject 014_S_4401 --trglabel ./rh.hOc4v.mpm.vpnl.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.hOc4v.mpm.vpnl.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.hOc4v.mpm.vpnl.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1025 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1025 nlabel points
Performing mapping from target back to the source label 129260
```

```
Number of reverse mapping hits = 355
Checking for and removing duplicates
Writing label file ./rh.hOc4v.mpm.vpnl.label 1380
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:54 mri_label2label N 12 e 3.30 S 0.34 U 3.38 P 112% M 541720 F 0 R 155682 W 0 c 13 w 14 I 96 O 120 L 2.81 2.88 2.85
@#@FSLOADPOST 2024:04:13:12:57:57 mri_label2label N 12 2.81 2.88 2.85

 mris_label2annot --s 014_S_4401 --ctab /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt --hemi rh --a mpm.vpnl --maxstatwinner --noverbose --l rh.FG1.mpm.vpnl.label --l rh.FG2.mpm.vpnl.label --l rh.FG3.mpm.vpnl.label --l rh.FG4.mpm.vpnl.label --l rh.hOc1.mpm.vpnl.label --l
rh.hOc2.mpm.vpnl.label --l rh.hOc3v.mpm.vpnl.label --l rh.hOc4v.mpm.vpnl.label

Reading ctab /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt
Number of ctab entries 9

7.4.1
cwd /home/jaibhatoa/mri_processed/014_S_4401/label
cmdline mris_label2annot --s 014_S_4401 --ctab /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt --hemi rh --a mpm.vpnl --maxstatwinner --noverbose --l rh.FG1.mpm.vpnl.label --l rh.FG2.mpm.vpnl.label --l rh.FG3.mpm.vpnl.label --l rh.FG4.mpm.vpnl.label --l rh.hOc1.mpm.vpnl.label --l
rh.hOc2.mpm.vpnl.label --l rh.hOc3v.mpm.vpnl.label --l rh.hOc4v.mpm.vpnl.label
sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64
user     jaibhatoa

subject 014_S_4401
hemi    rh
SUBJECTS_DIR /home/jaibhatoa/mri_processed
ColorTable /usr/local/freesurfer/7.4.1/average/colortable_vpnl.txt
AnnotName  mpm.vpnl
nlables 8
LabelThresh 0 0.000000
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig
Index Offset 0
0 reading rh.FG1.mpm.vpnl.label
 1 1376057 FG1
1 reading rh.FG2.mpm.vpnl.label
 2 16711935 FG2
2 reading rh.FG3.mpm.vpnl.label
 3 16711680 FG3
3 reading rh.FG4.mpm.vpnl.label
 4 1705837 FG4
4 reading rh.hOc1.mpm.vpnl.label
 5 25600 hOc1
5 reading rh.hOc2.mpm.vpnl.label
 6 255 hOc2
6 reading rh.hOc3v.mpm.vpnl.label
 7 16776960 hOc3v
7 reading rh.hOc4v.mpm.vpnl.label
 8 65535 hOc4v
Mapping unhit to unknown
Found 113600 unhit vertices
Writing annot to /home/jaibhatoa/mri_processed/014_S_4401/label/rh.mpm.vpnl.annot
@#@FSTIME  2024:04:13:12:57:57 mris_label2annot N 26 e 0.54 S 0.11 U 0.55 P 123% M 150288 F 0 R 41130 W 0 c 2 w 4 I 0 O 2024 L 2.81 2.88 2.85
@#@FSLOADPOST 2024:04:13:12:57:58 mris_label2annot N 26 2.81 2.88 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA1_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA1_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA1_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA1_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 876 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  876 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 21
Checking for and removing duplicates
Writing label file ./rh.BA1_exvivo.thresh.label 897
mri_label2label: Done

@#@FSTIME  2024:04:13:12:57:58 mri_label2label N 12 e 3.22 S 0.30 U 3.37 P 113% M 541736 F 0 R 155665 W 0 c 13 w 14 I 80 O 56 L 2.81 2.88 2.85
@#@FSLOADPOST 2024:04:13:12:58:01 mri_label2label N 12 2.90 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA2_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA2_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA2_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA2_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2688 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2688 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 7
Checking for and removing duplicates
Writing label file ./rh.BA2_exvivo.thresh.label 2695
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:01 mri_label2label N 12 e 3.75 S 0.36 U 3.82 P 111% M 541896 F 0 R 155710 W 0 c 12 w 14 I 240 O 128 L 2.90 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:58:05 mri_label2label N 12 2.91 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3a_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA3a_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3a_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA3a_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1698 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1698 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 8
Checking for and removing duplicates
Writing label file ./rh.BA3a_exvivo.thresh.label 1706
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:05 mri_label2label N 12 e 3.55 S 0.34 U 3.65 P 112% M 541948 F 0 R 159001 W 0 c 13 w 15 I 152 O 88 L 2.91 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:58:08 mri_label2label N 12 2.91 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3b_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA3b_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA3b_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA3b_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 2183 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  2183 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 10
Checking for and removing duplicates
Writing label file ./rh.BA3b_exvivo.thresh.label 2193
mri_label2label: Done
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@#@FSTIME  2024:04:13:12:58:08 mri_label2label N 12 e 3.65 S 0.36 U 3.74 P 112% M 541936 F 0 R 155699 W 0 c 7 w 14 I 192 O 120 L 2.91 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:58:12 mri_label2label N 12 2.92 2.91 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4a_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA4a_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4a_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA4a_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1388 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1388 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 30
Checking for and removing duplicates
Writing label file ./rh.BA4a_exvivo.thresh.label 1418
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:12 mri_label2label N 12 e 3.31 S 0.31 U 3.41 P 112% M 541732 F 0 R 155683 W 0 c 13 w 14 I 120 O 88 L 2.92 2.91 2.85
@#@FSLOADPOST 2024:04:13:12:58:15 mri_label2label N 12 3.01 2.92 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4p_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA4p_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA4p_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA4p_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1489 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1489 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 76
Checking for and removing duplicates
Writing label file ./rh.BA4p_exvivo.thresh.label 1565
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:15 mri_label2label N 12 e 3.56 S 0.34 U 3.69 P 113% M 541872 F 0 R 155684 W 0 c 11 w 14 I 136 O 104 L 3.01 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:58:19 mri_label2label N 12 3.00 2.93 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA6_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA6_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA6_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA6_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 6959 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  6959 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 280
Checking for and removing duplicates
Writing label file ./rh.BA6_exvivo.thresh.label 7239
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:19 mri_label2label N 12 e 4.66 S 0.34 U 4.76 P 109% M 542208 F 0 R 155794 W 0 c 19 w 16 I 592 O 440 L 3.00 2.93 2.86
@#@FSLOADPOST 2024:04:13:12:58:23 mri_label2label N 12 3.00 2.93 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA44_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA44_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA44_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA44_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1012 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1012 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 39
Checking for and removing duplicates
Writing label file ./rh.BA44_exvivo.thresh.label 1051
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:23 mri_label2label N 12 e 3.28 S 0.31 U 3.40 P 113% M 541836 F 0 R 155674 W 0 c 15 w 15 I 88 O 72 L 3.00 2.93 2.86
@#@FSLOADPOST 2024:04:13:12:58:27 mri_label2label N 12 3.00 2.93 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA45_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.BA45_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.BA45_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.BA45_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 1178 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  1178 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 31
Checking for and removing duplicates
Writing label file ./rh.BA45_exvivo.thresh.label 1209
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:27 mri_label2label N 12 e 3.27 S 0.35 U 3.34 P 113% M 542000 F 0 R 158966 W 0 c 9 w 14 I 104 O 72 L 3.00 2.93 2.86
@#@FSLOADPOST 2024:04:13:12:58:30 mri_label2label N 12 2.92 2.91 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.V1_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.V1_exvivo.thresh.label --hemi rh --regmethod surface
```

```
srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.V1_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.V1_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3232 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3232 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 1365
Checking for and removing duplicates
Writing label file ./rh.V1_exvivo.thresh.label 4597
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:30 mri_label2label N 12 e 3.82 S 0.29 U 3.95 P 111% M 542244 F 0 R 155734 W 0 c 11 w 15 I 280 O 368 L 2.92 2.91 2.86
@#@FSLOADPOST 2024:04:13:12:58:34 mri_label2label N 12 2.85 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.V2_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.V2_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.V2_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.V2_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 3437 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  3437 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 1158
Checking for and removing duplicates
Writing label file ./rh.V2_exvivo.thresh.label 4595
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:34 mri_label2label N 12 e 3.89 S 0.32 U 4.01 P 111% M 542080 F 1 R 159043 W 0 c 15 w 14 I 296 O 368 L 2.85 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:58:38 mri_label2label N 12 2.85 2.90 2.85

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.MT_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.MT_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.MT_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.MT_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 268 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  268 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 122
Checking for and removing duplicates
Writing label file ./rh.MT_exvivo.thresh.label 390
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:38 mri_label2label N 12 e 3.27 S 0.35 U 3.39 P 114% M 541884 F 0 R 155648 W 0 c 7 w 13 I 24 O 40 L 2.85 2.90 2.85
@#@FSLOADPOST 2024:04:13:12:58:41 mri_label2label N 12 2.94 2.91 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.entorhinal_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.entorhinal_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.entorhinal_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.entorhinal_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 694 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  694 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 12
Checking for and removing duplicates
Writing label file ./rh.entorhinal_exvivo.thresh.label 706
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:41 mri_label2label N 12 e 3.41 S 0.36 U 3.50 P 113% M 541584 F 0 R 155670 W 0 c 14 w 14 I 64 O 48 L 2.94 2.91 2.86
@#@FSLOADPOST 2024:04:13:12:58:45 mri_label2label N 12 2.95 2.92 2.86

 mri_label2label --srcsubject fsaverage --srclabel /home/jaibhatoa/mri_processed/fsaverage/label/rh.perirhinal_exvivo.thresh.label --trgsubject 014_S_4401 --trglabel ./rh.perirhinal_exvivo.thresh.label --hemi rh --regmethod surface


srclabel = /home/jaibhatoa/mri_processed/fsaverage/label/rh.perirhinal_exvivo.thresh.label
srcsubject = fsaverage
trgsubject = 014_S_4401
trglabel = ./rh.perirhinal_exvivo.thresh.label
regmethod = surface

srchemi = rh
trghemi = rh
trgsurface = white
srcsurfreg = sphere.reg
trgsurfreg = sphere.reg
usehash = 1
Use ProjAbs  = 0, 0
Use ProjFrac = 0, 0
DoPaint 0

SUBJECTS_DIR    /home/jaibhatoa/mri_processed
FREESURFER_HOME /usr/local/freesurfer/7.4.1
Loading source label.
Found 291 points in source label.
Starting surface-based mapping
Reading source registration
 /home/jaibhatoa/mri_processed/fsaverage/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Reading target surface
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white
Reading target registration
 /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.sphere.reg
Rescaling ...  original radius = 100
Building target registration hash (res=16).
Building source registration hash (res=16).
INFO: found  291 nlabel points
Performing mapping from target back to the source label 129260
Number of reverse mapping hits = 2
Checking for and removing duplicates
Writing label file ./rh.perirhinal_exvivo.thresh.label 293
mri_label2label: Done

@#@FSTIME  2024:04:13:12:58:45 mri_label2label N 12 e 3.13 S 0.36 U 3.17 P 113% M 541712 F 0 R 155648 W 0 c 10 w 13 I 32 O 24 L 2.95 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:58:48 mri_label2label N 12 2.95 2.92 2.86

 mris_label2annot --s 014_S_4401 --hemi rh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l rh.BA1_exvivo.label --l rh.BA2_exvivo.label --l rh.BA3a_exvivo.label --l rh.BA3b_exvivo.label --l rh.BA4a_exvivo.label --l rh.BA4p_exvivo.label --l rh.BA6_exvivo.label --l
rh.BA44_exvivo.label --l rh.BA45_exvivo.label --l rh.V1_exvivo.label --l rh.V2_exvivo.label --l rh.MT_exvivo.label --l rh.perirhinal_exvivo.label --l rh.entorhinal_exvivo.label --a BA_exvivo --maxstatwinner --noverbose

Reading ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
Number of ctab entries 15

7.4.1
cwd /home/jaibhatoa/mri_processed/014_S_4401/label
```

```
cmdline mris_label2annot --s 014_S_4401 --hemi rh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l rh.BA1_exvivo.label --l rh.BA2_exvivo.label --l rh.BA3a_exvivo.label --l rh.BA3b_exvivo.label --l rh.BA4a_exvivo.label --l rh.BA4p_exvivo.label --l rh.BA6_exvivo.label --l rh.BA44_exvivo.label --l rh.BA45_exvivo.label --l rh.V1_exvivo.label --l rh.V2_exvivo.label --l rh.MT_exvivo.label --l rh.perirhinal_exvivo.label --l rh.entorhinal_exvivo.label --a BA_exvivo --maxstatwinner --noverbose
sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64
user     jaibhatoa

subject 014_S_4401
hemi    rh
SUBJECTS_DIR /home/jaibhatoa/mri_processed
ColorTable /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
AnnotName  BA_exvivo
nlabels 14
Label2Thresh 0 0.000000
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig
Index Offset 0
0 reading rh.BA1_exvivo.label
 1 1530880 BA1_exvivo
1 reading rh.BA2_exvivo.label
 2 16749699 BA2_exvivo
2 reading rh.BA3a_exvivo.label
 3 16711680 BA3a_exvivo
3 reading rh.BA3b_exvivo.label
 4 3368703 BA3b_exvivo
4 reading rh.BA4a_exvivo.label
 5 1376196 BA4a_exvivo
5 reading rh.BA4p_exvivo.label
 6 13382655 BA4p_exvivo
6 reading rh.BA6_exvivo.label
 7 10036737 BA6_exvivo
7 reading rh.BA44_exvivo.label
 8 2490521 BA44_exvivo
8 reading rh.BA45_exvivo.label
 9 39283 BA45_exvivo
9 reading rh.V1_exvivo.label
10 3993 V1_exvivo
10 reading rh.V2_exvivo.label
11 8508928 V2_exvivo
11 reading rh.MT_exvivo.label
12 10027163 MT_exvivo
12 reading rh.perirhinal_exvivo.label
13 16422433 perirhinal_exvivo
13 reading rh.entorhinal_exvivo.label
14 16392598 entorhinal_exvivo
Mapping unhit to unknown
Found 89476 unhit vertices
Writing annot to /home/jaibhatoa/mri_processed/014_S_4401/label/rh.BA_exvivo.annot
@#@FSTIME  2024:04:13:12:58:48 mris_label2annot N 38 e 0.58 S 0.11 U 0.60 P 122% M 150420 F 0 R 41228 W 0 c 8 w 5 I 0 O 2024 L 2.95 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:58:48 mris_label2annot N 38 2.95 2.92 2.86

 mris_label2annot --s 014_S_4401 --hemi rh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l rh.BA1_exvivo.thresh.label --l rh.BA2_exvivo.thresh.label --l rh.BA3a_exvivo.thresh.label --l rh.BA3b_exvivo.thresh.label --l rh.BA4a_exvivo.thresh.label --l rh.BA4p_exvivo.thresh.label --l rh.BA6_exvivo.thresh.label --l rh.BA44_exvivo.thresh.label --l rh.BA45_exvivo.thresh.label --l rh.V1_exvivo.thresh.label --l rh.V2_exvivo.thresh.label --l rh.MT_exvivo.thresh.label --l rh.perirhinal_exvivo.thresh.label --l rh.entorhinal_exvivo.thresh.label --a BA_exvivo.thresh --maxstatwinner --noverbose

Reading ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
Number of ctab entries 15

7.4.1
cwd /home/jaibhatoa/mri_processed/014_S_4401/label
cmdline mris_label2annot --s 014_S_4401 --hemi rh --ctab /usr/local/freesurfer/7.4.1/average/colortable_BA.txt --l rh.BA1_exvivo.thresh.label --l rh.BA2_exvivo.thresh.label --l rh.BA3a_exvivo.thresh.label --l rh.BA3b_exvivo.thresh.label --l rh.BA4a_exvivo.thresh.label --l rh.BA4p_exvivo.thresh.label --l rh.BA6_exvivo.thresh.label --l rh.BA44_exvivo.thresh.label --l rh.BA45_exvivo.thresh.label --l rh.V1_exvivo.thresh.label --l rh.V2_exvivo.thresh.label --l rh.MT_exvivo.thresh.label --l rh.perirhinal_exvivo.thresh.label --l rh.entorhinal_exvivo.thresh.label --a BA_exvivo.thresh --maxstatwinner --noverbose
sysname  Linux
hostname vm4--jb--3d--mri--pre-processing
machine  x86_64
user     jaibhatoa

subject 014_S_4401
hemi    rh
SUBJECTS_DIR /home/jaibhatoa/mri_processed
ColorTable /usr/local/freesurfer/7.4.1/average/colortable_BA.txt
AnnotName  BA_exvivo.thresh
nlabels 14
Label2Thresh 0 0.000000
Loading /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig
Index Offset 0
0 reading rh.BA1_exvivo.thresh.label
 1 1530880 BA1_exvivo
1 reading rh.BA2_exvivo.thresh.label
 2 16749699 BA2_exvivo
2 reading rh.BA3a_exvivo.thresh.label
 3 16711680 BA3a_exvivo
3 reading rh.BA3b_exvivo.thresh.label
 4 3368703 BA3b_exvivo
4 reading rh.BA4a_exvivo.thresh.label
 5 1376196 BA4a_exvivo
5 reading rh.BA4p_exvivo.thresh.label
 6 13382655 BA4p_exvivo
6 reading rh.BA6_exvivo.thresh.label
 7 10036737 BA6_exvivo
7 reading rh.BA44_exvivo.thresh.label
 8 2490521 BA44_exvivo
8 reading rh.BA45_exvivo.thresh.label
 9 39283 BA45_exvivo
9 reading rh.V1_exvivo.thresh.label
10 3993 V1_exvivo
10 reading rh.V2_exvivo.thresh.label
11 8508928 V2_exvivo
11 reading rh.MT_exvivo.thresh.label
12 10027163 MT_exvivo
12 reading rh.perirhinal_exvivo.thresh.label
13 16422433 perirhinal_exvivo
13 reading rh.entorhinal_exvivo.thresh.label
14 16392598 entorhinal_exvivo
Mapping unhit to unknown
Found 106605 unhit vertices
Writing annot to /home/jaibhatoa/mri_processed/014_S_4401/label/rh.BA_exvivo.thresh.annot
@#@FSTIME  2024:04:13:12:58:48 mris_label2annot N 38 e 0.54 S 0.10 U 0.56 P 123% M 150448 F 0 R 41180 W 0 c 3 w 4 I 0 O 2024 L 2.95 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:58:49 mris_label2annot N 38 2.95 2.92 2.86

 mris_anatomical_stats -th3 -mgz -f ../stats/rh.BA_exvivo.stats -b -a ./rh.BA_exvivo.annot -c ./BA_exvivo.ctab 014_S_4401 rh white

computing statistics for each annotation in ./rh.BA_exvivo.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz...
reading input surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
reading input pial surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial...
reading input white surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
Using TH3 vertex volume calc
Total face volume 234921
Total vertex volume 234712 (mask=0)
Saving annotation colortable ./BA_exvivo.ctab

table columns are:
    number of vertices
    total surface area (mm^2)
    total gray matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
    integrated rectified mean curvature
    integrated rectified Gaussian curvature
    folding index
    intrinsic curvature index
    structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
  831    457   1473  2.267 0.455     0.116     0.030       11     0.8  BA1_exvivo
 2635   1720   3663  2.088 0.436     0.098     0.020       18     2.2  BA2_exvivo
  988    747   1015  1.678 0.351     0.130     0.030        7     1.3  BA3a_exvivo
 1703   1095   2055  1.713 0.458     0.099     0.023       12     1.7  BA3b_exvivo
 1672    999   2792  2.526 0.523     0.108     0.034       13     2.1  BA4a_exvivo
 1343    874   2055  2.426 0.491     0.103     0.030        9     1.7  BA4p_exvivo
 7886   5308  15856  2.558 0.554     0.120     0.032       71    10.3  BA6_exvivo
 3203   2296   6300  2.515 0.424     0.130     0.029       35     3.6  BA44_exvivo
 3668   2760   7782  2.424 0.491     0.131     0.030       44     4.3  BA45_exvivo
 4561   3134   6207  1.877 0.554     0.140     0.041       54     7.7  V1_exvivo
 7922   5577  12686  2.089 0.503     0.144     0.039      107    11.5  V2_exvivo
 2549   1804   4660  2.389 0.455     0.133     0.030       32     2.9  MT_exvivo
  303    260   1238  3.297 0.785     0.163     0.043        5     0.5  perirhinal_exvivo
  520    395   1822  3.196 0.826     0.128     0.033        5     0.6  entorhinal_exvivo
@#@FSTIME  2024:04:13:12:58:49 mris_anatomical_stats N 12 e 3.04 S 0.27 U 3.49 P 123% M 454628 F 0 R 127968 W 0 c 12 w 19 I 0 O 24 L 2.95 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:58:52 mris_anatomical_stats N 12 2.95 2.92 2.86

 mris_anatomical_stats -th3 -mgz -f ../stats/rh.BA_exvivo.thresh.stats -b -a ./rh.BA_exvivo.thresh.annot -c ./BA_exvivo.thresh.ctab 014_S_4401 rh white

computing statistics for each annotation in ./rh.BA_exvivo.thresh.annot.
reading volume /home/jaibhatoa/mri_processed/014_S_4401/mri/wm.mgz...
reading input surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
reading input pial surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.pial...
reading input white surface /home/jaibhatoa/mri_processed/014_S_4401/surf/rh.white...
INFO: using TH3 volume calc
INFO: assuming MGZ format for volumes.
Using TH3 vertex volume calc
Total face volume 234921
Total vertex volume 234712 (mask=0)
Saving annotation colortable ./BA_exvivo.thresh.ctab

table columns are:
    number of vertices
    total surface area (mm^2)
    total gray matter volume (mm^3)
    average cortical thickness +- standard deviation (mm)
    integrated rectified mean curvature
    integrated rectified Gaussian curvature
    folding index
    intrinsic curvature index
    structure name

atlas_icv (eTIV) = 1431271 mm^3    (det: 1.361102 )
  573    307    914  2.146 0.469     0.117     0.032       10     0.7  BA1_exvivo
 1429    915   2107  2.116 0.465     0.089     0.018        7     1.2  BA2_exvivo
  886    678    874  1.675 0.340     0.131     0.028        5     1.2  BA3a_exvivo
 1323    884   1354  1.532 0.297     0.091     0.019        7     1.1  BA3b_exvivo
  948    558   1900  2.720 0.562     0.112     0.037        9     1.0  BA4a_exvivo
 1135    736   1686  2.402 0.499     0.104     0.031        8     1.6  BA4p_exvivo
 5156   3483  10275  2.537 0.543     0.122     0.034       47     7.1  BA6_exvivo
  768    604   1908  2.659 0.425     0.148     0.037       12     0.9  BA44_exvivo
  832    672   2262  2.740 0.458     0.154     0.039       13     1.2  BA45_exvivo
 4393   3005   5811  1.862 0.532     0.138     0.040       51     7.2  V1_exvivo
 4319   3103   6764  1.984 0.524     0.155     0.044       65     7.4  V2_exvivo
  386    260    660  2.294 0.385     0.110     0.022        3     0.3  MT_exvivo
   28     29    154  3.601 0.727     0.175     0.039        0     0.0  perirhinal_exvivo
  479    369   1565  3.227 0.772     0.121     0.030        4     0.5  entorhinal_exvivo
@#@FSTIME  2024:04:13:12:58:52 mris_anatomical_stats N 12 e 3.08 S 0.25 U 3.55 P 123% M 454584 F 0 R 128059 W 0 c 10 w 21 I 0 O 24 L 2.95 2.92 2.86
@#@FSLOADPOST 2024:04:13:12:58:55 mris_anatomical_stats N 12 2.96 2.92 2.86

Started at Sat Apr 13 09:50:05 UTC 2024
Ended   at Sat Apr 13 12:58:55 UTC 2024
@#@%# recon-all-run-time-hours 3.147
recon-all -s 014_S_4401 finished without error at Sat Apr 13 12:58:55 UTC 2024

jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ ls -R ~/mri_processed/014_S_4401
/home/jaibhatoa/mri_processed/014_S_4401: label  mri
scripts  stats  surf  tmp  touch  trash

/home/jaibhatoa/mri_processed/014_S_4401/label:
BA_exvivo.ctab                  lh.BA3b_exvivo.thresh.label  lh.BA_exvivo.thresh.annot  lh.aparc.a2009s.annot              lh.perirhinal_exvivo.label         rh.BA45_exvivo.label         rh.PG3.mpm.vpnl.label      rh.cortex.label
BA_exvivo.thresh.ctab           lh.BA44_exvivo.label         lh.PG1.mpm.vpnl.label      lh.aparc.annot                     lh.perirhinal_exvivo.thresh.label  rh.BA45_exvivo.thresh.label  rh.PG4.mpm.vpnl.label      rh.entorhinal_exvivo.label aparc.annot.DKTatlas.ctab
lh.BA44_exvivo.thresh.label  lh.FG2.mpm.vpnl.label       lh.cortex+hipamyg.label    rh.BA1_exvivo.label                rh.BA4a_exvivo.label         rh.MT_exvivo.label           rh.entorhinal_exvivo.thresh.label
aparc.annot.a2009s.ctab         lh.BA45_exvivo.label         lh.FG3.mpm.vpnl.label      lh.cortex.label                    rh.BA1_exvivo.thresh.label         rh.BA4a_exvivo.thresh.label  rh.MT_exvivo.thresh.label  rh.h0c1.mpm.vpnl.label  aparc.annot.ctab
lh.BA45_exvivo.thresh.label  lh.FG4.mpm.vpnl.label       lh.entorhinal_exvivo.label  rh.BA2_exvivo.label                rh.BA4p_exvivo.label         rh.V1_exvivo.label           rh.h0c2.mpm.vpnl.label  lh.BA1_exvivo.label        lh.BA4a_exvivo.label
lh.MT_exvivo.label              lh.entorhinal_exvivo.thresh.label  rh.BA2_exvivo.thresh.label  rh.BA4p_exvivo.thresh.label  rh.V1_exvivo.thresh.label  rh.h0c3v.mpm.vpnl.label  lh.BA1_exvivo.thresh.label  lh.BA4a_exvivo.thresh.label  lh.MT_exvivo.thresh.label
lh.h0c1.mpm.vpnl.label          rh.BA3a_exvivo.label         rh.BA6_exvivo.label        rh.V2_exvivo.label                 rh.h0c4v.mpm.vpnl.label  lh.BA2_exvivo.label          lh.BA4p_exvivo.label         lh.V1_exvivo.label         lh.h0c2.mpm.vpnl.label
rh.BA3a_exvivo.thresh.label     rh.BA6_exvivo.thresh.label   rh.V2_exvivo.thresh.label  rh.mpm.vpnl.annot  lh.BA2_exvivo.thresh.label  lh.BA4p_exvivo.thresh.label  lh.V1_exvivo.thresh.label  lh.h0c3v.mpm.vpnl.label    rh.BA3b_exvivo.label
rh.BA_exvivo.annot              rh.aparc.DKTatlas.annot      rh.nofix.cortex.label  lh.BA3a_exvivo.label               lh.BA6_exvivo.label              lh.V2_exvivo.label           lh.h0c4v.mpm.vpnl.label    rh.BA3b_exvivo.thresh.label  rh.BA_exvivo.thresh.annot
rh.aparc.a2009s.annot           rh.perirhinal_exvivo.label  lh.BA3a_exvivo.thresh.label  lh.BA6_exvivo.thresh.label  lh.V2_exvivo.thresh.label  lh.mpm.vpnl.annot            rh.BA44_exvivo.label         rh.FG1.mpm.vpnl.label      rh.aparc.annot
rh.perirhinal_exvivo.thresh.label lh.BA3b_exvivo.label       lh.BA_exvivo.annot         lh.aparc.DKTatlas.annot    lh.nofix.cortex.label              rh.BA44_exvivo.thresh.label  rh.FG2.mpm.vpnl.label      rh.cortex+hipamyg.label

/home/jaibhatoa/mri_processed/014_S_4401/mri:
T1.mgz                          aparc.a2009s+aseg.mgz                      aseg.mgz                      brain.finalsurfs.mgz  ctrl_pts.mgz     mri_nu_correct.mni.log     orig          rh.ribbon.mgz        talairach.label_intensities.txt  wm.asegedit.mgz antsdn.brain.mgz
aseg.auto.mgz                   aseg.presurf.hypos.mgz     brain.mgz                  filled.auto.mgz  mri_nu_correct.mni.log.bak  orig.mgz         ribbon.mgz           talairach.log                wm.mgz aparc+aseg.mgz            aseg.auto_noCCseg.label_intensities.txt
aseg.presurf.mgz                brainmask.auto.mgz         filled.mgz                 norm.mgz                 orig_nu.mgz  segment.dat      talairach_with_skull.log     wm.seg.mgz aparc.DKTatlas+aseg.mgz  aseg.auto_noCCseg.mgz            brain.finalsurfs.manedit.mgz
brainmask.mgz                   lh.ribbon.mgz              nu.mgz                     rawavg.mgz               surface.defects.mgz  transforms                 wmparc.mgz
```

```
/home/jaibhatoa/mri_processed/014_S_4401/mri/orig: 001.mgz

/home/jaibhatoa/mri_processed/014_S_4401/mri/transforms: bak  cc_up.lta  talairach.auto.xfm  talairach.auto.xfm.lta  talairach.lta  talairach.m3z  talairach.xfm  talairach.xfm.lta  talairach_avi.log  talairach_avi_QA.log  talairach_with_skull.lta

talsrcimg_to_711-2C_as_mni_average_305_t4_vox2vox.txt /home/jaibhatoa/mri_processed/014_S_4401/mri/transforms/bak:

/home/jaibhatoa/mri_processed/014_S_4401/scripts:
build-stamp.txt  lastcall.build-stamp.txt  pctsurfcon.log      ponscc.cut.log       recon-all.cmd   recon-all.env       recon-all.log      unknown-args.txt defect2seg.log   patchdir.txt
pctsurfcon.log.old  recon-all-status.log  recon-all.done  recon-all.local-copy  recon-config.yaml

/home/jaibhatoa/mri_processed/014_S_4401/stats: aseg.stats       lh.BA_exvivo.stats       lh.aparc.DKTatlas.stats  lh.aparc.pial.stats  lh.curv.stats       rh.BA_exvivo.stats       rh.aparc.DKTatlas.stats  rh.aparc.pial.stats  rh.curv.stats
wmparc.stats brainvol.stats  lh.BA_exvivo.thresh.stats  lh.aparc.a2009s.stats    lh.aparc.stats       lh.w-g.pct.stats  rh.BA_exvivo.thresh.stats  rh.aparc.a2009s.stats    rh.aparc.stats       rh.w-g.pct.stats

/home/jaibhatoa/mri_processed/014_S_4401/surf: autodet.gw.stats.lh.dat   lh.defect_chull             lh.orig           lh.smoothwm.FI.crv  lh.sulc             lh.white.preaparc.K  rh.defect_labels         rh.orig.nofix       rh.smoothwm.H.crv
rh.thickness autodet.gw.stats.rh.dat   lh.defect_labels          lh.orig.nofix       lh.smoothwm.H.crv    lh.thickness        rh.area             rh.defects.pointset      rh.orig.premesh     rh.smoothwm.K.crv   rh.volume lh.area
lh.defects.pointset      lh.orig.premesh      lh.smoothwm.K.crv   lh.volume      rh.area.mid      rh.fsaverage.sphere.reg  rh.pial             rh.smoothwm.K1.crv  rh.w-g.pct.mgh lh.area.mid          lh.fsaverage.sphere.reg  lh.pial
lh.smoothwm.K1.crv   lh.w-g.pct.mgh       rh.area.pial          rh.inflated             rh.pial.T1          rh.smoothwm.K2.crv  rh.white lh.area.pial          lh.inflated             lh.pial.T1          lh.smoothwm.K2.crv  lh.white
rh.avg_curv          rh.inflated.H        rh.qsphere.nofix    rh.smoothwm.S.crv   rh.white.H lh.avg_curv          lh.inflated.H        lh.qsphere.nofix    lh.smoothwm.S.crv   lh.white.H          rh.curv             rh.inflated.K
rh.smoothwm          rh.smoothwm.nofix    rh.white.K

lh.curv              lh.inflated.K        lh.smoothwm         lh.smoothwm.nofix   lh.white.K          rh.curv.pial        rh.inflated.nofix        rh.smoothwm.BE.crv  rh.sphere           rh.white.preaparc

lh.curv.pial         lh.inflated.nofix    lh.smoothwm.BE.crv  lh.sphere           lh.white.preaparc   rh.defect_borders   rh.jacobian_white        rh.smoothwm.C.crv   rh.sphere.reg       rh.white.preaparc.H

lh.defect_borders    lh.jacobian_white    lh.smoothwm.C.crv   lh.sphere.reg       lh.white.preaparc.H  rh.defect_chull    rh.orig                  rh.smoothwm.FI.crv  rh.sulc             rh.white.preaparc.K

/home/jaibhatoa/mri_processed/014_S_4401/tmp:

/home/jaibhatoa/mri_processed/014_S_4401/touch:
apas2aseg.touch          fill.touch               lh.autodet.gw.stats.touch  lh.jacobian_white.touch  lh.tessellate.touch      rh.aparc2.touch          rh.curvstats.touch       rh.smoothwm1.touch       rh.white.touch asegmerge.touch        inorm1.touch
lh.avgcurv.touch         lh.pctsurfcon.touch      lh.topofix.touch           rh.aparcstats.touch      rh.inflate.H.K.touch     rh.smoothwm2.touch       segstats.touch ca_label.touch       inorm2.touch            lh.cortex+hipamyg.touch
lh.pial.touch            lh.white.H.K.touch       rh.aparcstats2.touch       rh.inflate1.touch        rh.sphmorph.touch        skull.lta.touch  ca_normalize.touch      lh.aparc.touch          lh.cortex.touch         lh.qsphere.touch
lh.white.preaparc.touch  rh.aparcstats3.touch     rh.inflate2.touch          rh.sphreg.touch          skull_strip.touch  ca_register.touch     lh.aparc2.touch         lh.curvstats.touch      lh.smoothwm1.touch      lh.white.touch
rh.autodet.gw.stats.touch  rh.jacobian_white.touch  rh.tessellate.touch       talairach.touch  conform.touch           lh.aparcstats.touch    lh.inflate.H.K.touch    lh.smoothwm2.touch      nu.touch                rh.avgcurv.touch
rh.pctsurfcon.touch      rh.topofix.touch         wmaparc.stats.touch  cortical_ribbon.touch  lh.aparcstats2.touch  lh.inflate1.touch        lh.sphmorph.touch       relabelhypos.touch      rh.cortex+hipamyg.touch  rh.pial.touch
rh.white.H.K.touch       wmsegment.touch  am_register.touch       lh.aparcstats3.touch  lh.inflate2.touch        lh.sphreg.touch          rh.aparc.touch          rh.cortex.touch         rh.qsphere.touch        rh.white.preaparc.touch

/home/jaibhatoa/mri_processed/014_S_4401/trash:
jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ tail /home/jaibhatoa/mri_processed/014_S_4401/scripts/recon-all.log
  386     260     660  2.294 0.385     0.110     0.022        3     0.3  MT_exvivo
   28      29     154  3.601 0.727     0.175     0.039        0     0.0  perirhinal_exvivo
  479     369    1565  3.227 0.772     0.121     0.030        4     0.5  entorhinal_exvivo
##@#FSTIME  2024:04:13:12:58:52 mris_anatomical_stats N 12 e 3.08 S 0.25 U 3.55 P 123% M 454584 F 0 R 128059 W 0 c 10 w 21 I 0 O 24 L 2.95 2.92 2.86
##@#FSLOADPOST 2024:04:13:12:58:55 mris_anatomical_stats N 12 2.96 2.92 2.86

Started at Sat Apr 13 09:50:05 UTC 2024
Ended   at Sat Apr 13 12:58:55 UTC 2024 ##@1#
recon-all-run-time-hours 3.147
recon-all -s 014_S_4401 finished without error at Sat Apr 13 12:58:55 UTC 2024

jaibhatoa@vm4--jb--3d--mri--pre-processing:~$ gsutil -m cp -r ~/mri_processed/014_S_4401* gs://data--mri--3d--pre-processing/processed_mri_data/mri_processed/
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file:///home/jaibhatoa/mri_processed/014_S_4401/surf/rh.orig.nofix [Content-Type=application/octet-stream]...
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Copying file:///home/jaibhatoa/mri_processed/014_S_4401/surf/rh.curv [Content-Type=application/octet-stream]...
| [340/340 files][299.6 MiB/299.6 MiB] 100% Done                                  Operation completed
over 340 objects/299.6 MiB.
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