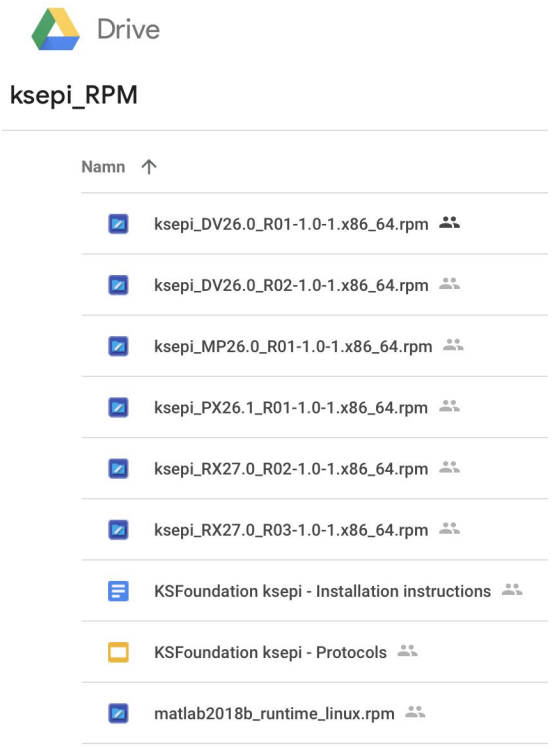
ksepi RPM installation instructions

The ksepi sequence supports the following

- Diffusion MRI
- fMRI (no Brainwave support)
- SWI 3D-EPI
- T1w 3D-EPI

1. Download the RPM files from:

http://bit.ly/ksepi_RPM (where you found this document)



You need to download the one **ksepi*-1.0.1.x86_64.rpm** file corresponding to the version of your MR system (release 26 and 27 are supported). MP26 is for PET/MR, PX26 is for Pioneer, and RX is for SIGNA Premier systems. Type 'whatRev' in a terminal of the MR scanner to make sure.

Also, you need to download the **matlab2018b_runtime_linux.rpm**.

2. Copy the two RPM files to the MR scanner

In this example to: /usr/g/mrraw/

you@computer> **scp mat*.rpm ksepi*rpm** ***mrscanner*:/usr/g/mrraw/**

3. Install ksepi psd and recon & Matlab runtime

{sdc@mrhost}[] **cd /usr/g/mrraw**

{sdc@mrhost}[] **su**
password = operator

[sdc@mrhost mrraw]# **rpm -i ksepi*.rpm**

This will install the following files in /export/home/sdc/ksepi
/export/home/sdc/ksepi/data
/export/home/sdc/ksepi/psd/ksepi
/export/home/sdc/ksepi/psd/ksepi.psd.ice
/export/home/sdc/ksepi/recon/mkdir_vre_ksepi
/export/home/sdc/ksepi/recon/recon_epi
/export/home/sdc/ksepi/recon/recon_epi.sh
/export/home/sdc/ksepi/recon/recon_epi_live.sh
/export/home/sdc/ksepi/recon/runtimeversion.txt
/usr/g/bin/ksepi-vre -> /export/home/sdc/ksepi/psd/ksepi
/usr/g/bin/ksepi-vre.psd.ice -> /export/home/sdc/ksepi/psd/ksepi.psd.ice
/usr/g/bin/ksepi-vre.psd.mgd -> /export/home/sdc/ksepi/psd/ksepi.psd.mgd
/usr/g/bin/recon961 -> /export/home/sdc/ksepi/recon/recon_epi_live.sh

[sdc@mrhost mrraw]# **rpm -i mat*.rpm**

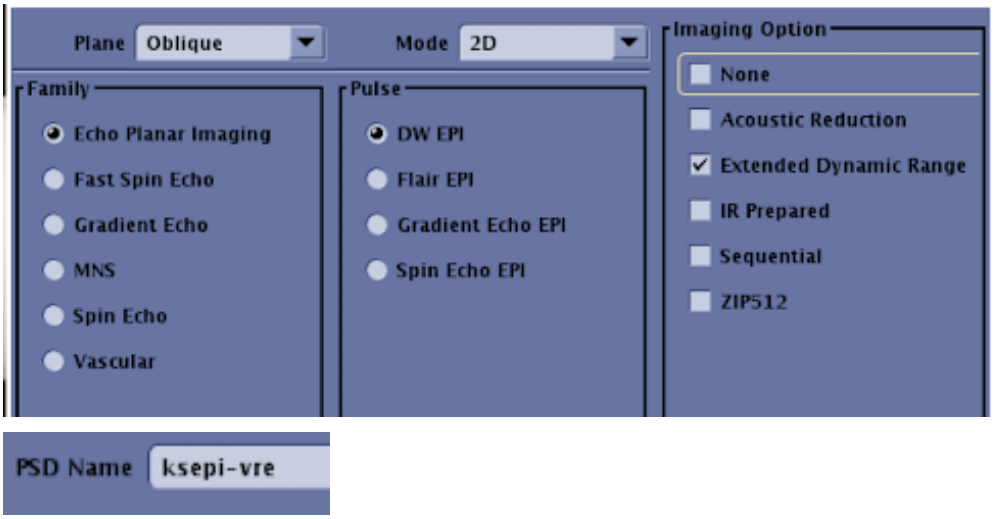
This will install the Matlab2018b runtime environment in
/export/home/sdc/MATLAB/matlab2018b_runtime_linux

In summary

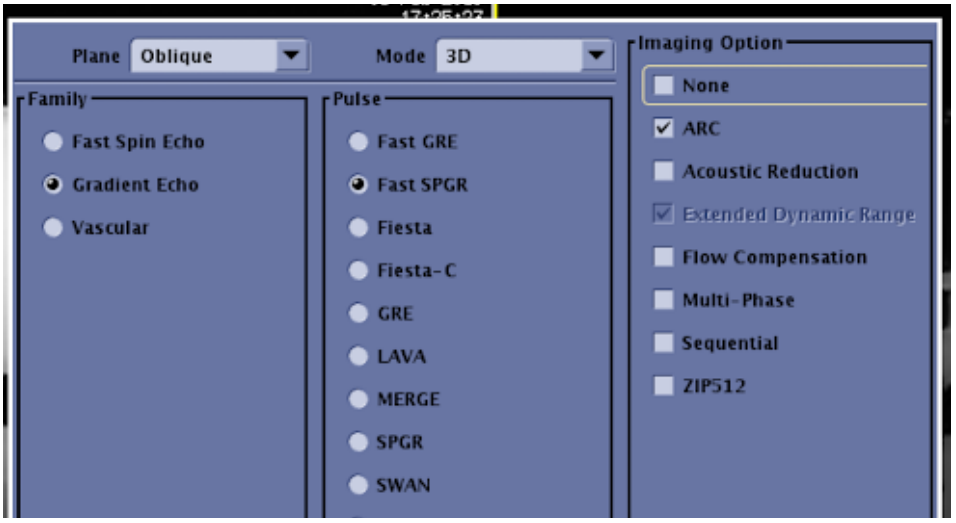
/export/home/sdc/ksepi/**psd**	The pulse sequence directory
/export/home/sdc/ksepi/**recon**	The directory containing recon executables
/export/home/sdc/ksepi/**data**	Empty directory storing the log files, temp files and DICOMs for the 5 last ksepi scans
/export/home/sdc/**MATLAB/**	The Matlab runtime environment (needed by .....ksepi/recon/recon_epi)

4. Sequence selections

Diffusion MRI



T1w 3D-EPI and SWI 3D-EPI



5. Recon options

{sdc@mrhost}[] **gedit** /export/home/sdc/recon/**recon_epi_live.sh**

At the top of this file:

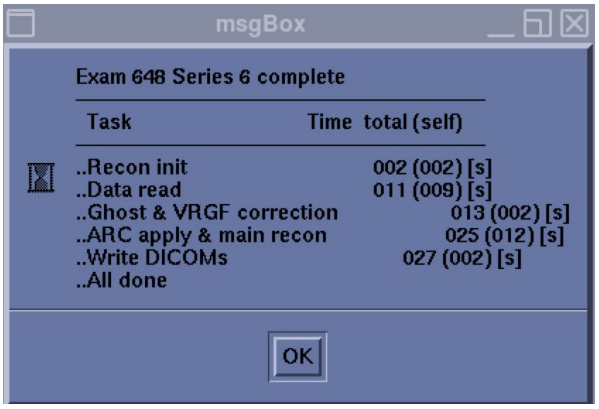
```
# Shorter VRE recon time for 2D diffusion (recon_epi.m->recon_2Depi.m)
recon_epi_options="tempdata disk parpool 4 moco 1"

# Remove '#' to reduce stress on the VRE (slower VRE recon for 2D diffusion)
# recon_epi_options="tempdata disk parpool 0 moco 1"

# Number of previous exams to keep in /export/home/sdc/ksepi/data on the MR
Host. ScanArchive, logs and DICOMs are stored here after recon
number_exams_to_keep=5

# show popup? Set to 0 to turn off
show_popup=1
```

By default, after every finished reconstruction a popup window is shown



Make sure there is no white space before or after the '=' signs. Otherwise, recon will not work.