

Version 3.0
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Reconstruction

The reconstruction script is located in /export/apps/reconstruction. As soon as the ref.[experiment].dat file and at least one P file have been transferred, the script may be started:

```
[user@solaris:/home/user] cd /export/apps/reconstruction  
[user@solaris:/export/apps/reconstruction] ./autorecon -i -r lx [experiment] [first run]  
[last run] [first P file]1
```

The autorecon script will generate a binary file named "stimulate.sdt" for each run. This file is the reconstructed data in its most basic format and contains no header. The size of the files should be $X * Y * \#slices * \#images * 2$ bytes. A stimulate.sdt file for a typical run of 25 slices and 36 images will be 29491200 ($128 * 128 * 25 * 36 * 2$)² bytes in size.

Depending on the length of the experiment, the reconstruction should take approximately 15-30 minutes to complete. When the script is finished, "Reconstruction Completed" will be displayed and the prompt will return in the terminal.

¹ Omit the "P" and the ".7"

² If the array size is 64x64, type "etype 64" in any terminal. Later, when finished exporting, return the default array size to 128x128 by typing "etype 128." If an array size other than 128x128 or 64x64 is being used, consult with the systems administrator for help in modifying the export_off_rec_stim.pro script located in /export/data/scripts.