**Convert INI raw data to Matlab**

**Date: 9/30/2013**

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**Description**: convert the raw data (meas.dat) from MRI console to Matlab. The following scripts have been previously tested on VB17 (NYMU) and VD13 (NCCU) in September 2013.

**Code**:

%read INI reference scan

cd('ref\_01');

ice\_master('flag\_vb15',1,'file\_raw','meas.dat','flag\_phase\_cor\_algorithm\_lsq',1,'flag\_regrid',1,'flag\_phase\_cor\_jbm',1,'flag\_3d',1);

%read INI accelerated data

cd('ini\_01');

ice\_master('flag\_vb15',1,'file\_raw','meas.dat','flag\_phase\_cor\_algorithm\_lsq',1,'flag\_regrid',1,'flag\_phase\_cor\_jbm',1,'flag\_output\_burst',1,'n\_measurement',2400,'flag\_rev\_even\_odd',1);

**Input files:**

‘meas.dat’ in the folder ‘ref\_01’. This includes the ‘reference scan’ raw data with full partition enocoding.

‘meas.dat’ in the folder ‘ini\_01’. This includes the ‘accelerated INI fMRI scan’ raw data, where all partition encoding steps are removed and the acquisition was repeated many (thousands) times.

**Output files:**

“bfloat” files, which include a .hdr and .bfloat file pair for each 2D slice (partition) of data in one channel of an RF coil array.

Notes:

* Use ice\_show.m to collect/show all data after conversion.
* Use fmri\_ldbfile.m to load data into Matlab.