

## **Blacknest Data System (BDS)**

### **BdsImportGui Program – 1.2.8 - 2013-02-07**

#### **1. Introduction**

The *bdsImportGui* application is designed to view seismic data contained in BDRS format.

#### **2. Introduction**

The expected source data for the *bdsImportGui* program is created during the reading of data from a BDRS encoded digital tape. Blacknest have developed a procedure system for the capture of the data from such digital tapes. The capture of the data from a single tape is termed a Job. On the completion of a Job the data comprises a *job directory* containing one *jobInfo.log* file and a number of BDRS data files named with the extension *.bdrs* for example *data-000000-000000.bdrs* and *,data-000001-000000.bdrs*. The bdrs files are typically the result of reading the original data tape several times. Each bdrs file is termed a **session**.

The *jobInfo.log* file contains metadata pertaining to the original tape and data. The file is ASCII and contains data saved as simple <NAME>: <VALUE> pairs. The *bdsImportGui* program requires that the **date:** value in the *jobinfo.log* file be set appropriately.

#### **3. Starting The Application**

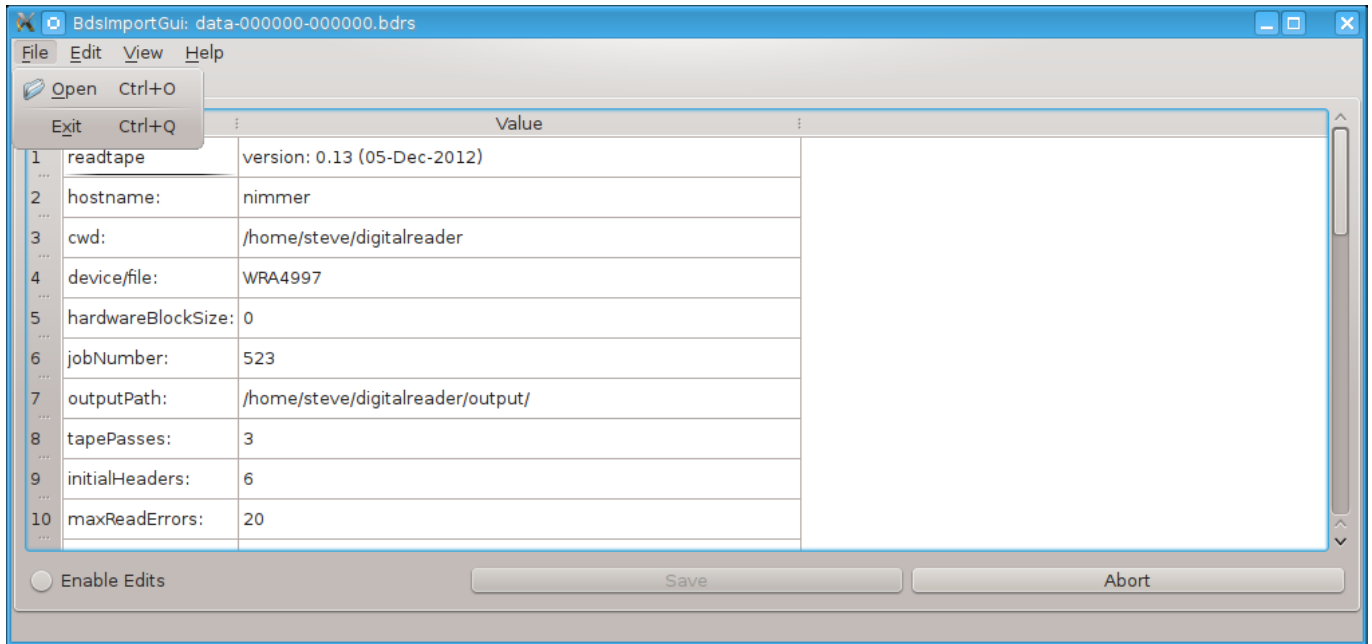
The application can be started from the application->Bds menu

#### **4. Using the Application**

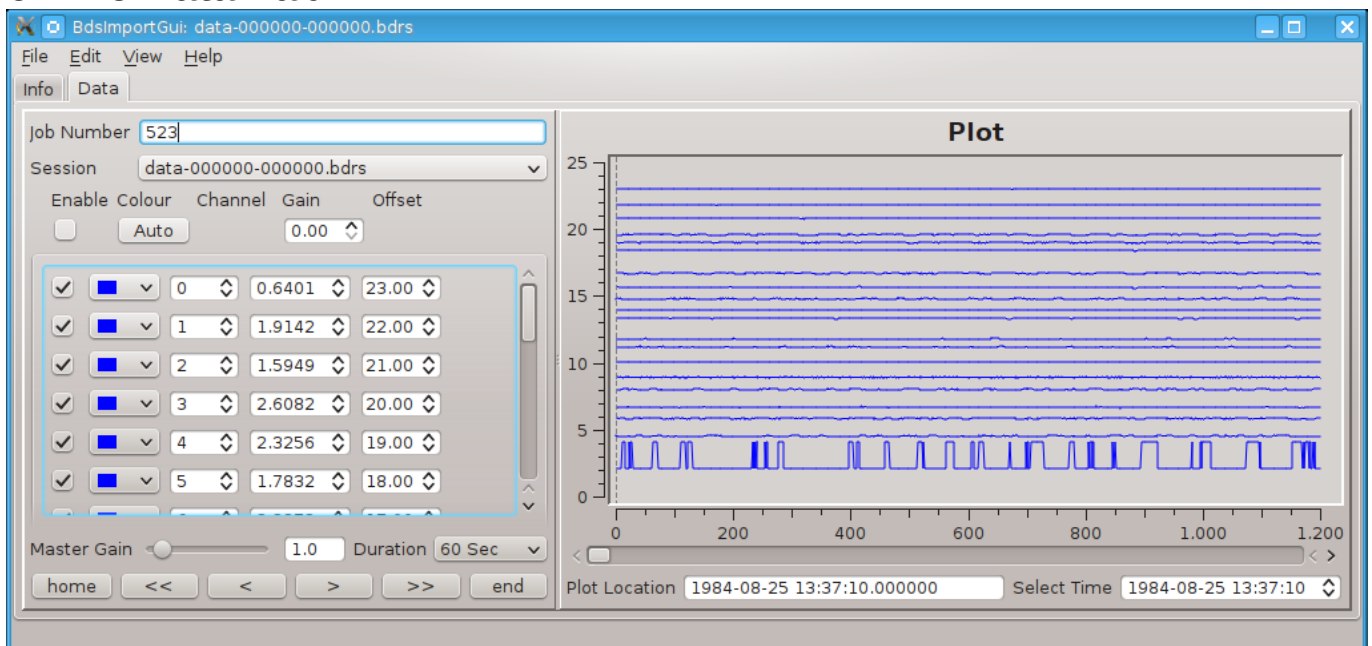
To open a Job use the **File->Open** menu and select the Job directory. The program will load the *jobInfo.log* file and the data from the first session file. The log file is displayed in the Info Tab and the waveform data display under the Data tab.

#### **5. The Info Tab**

The program displays the contents of the *jobInfo.log* file in a tabular form. It is possible to edit the fields of this log file by enabling the “Enable Edits” checkbox. To save any changes click the save button. On each save a backup of the the previous log file will be saved in the job directory as *jobInfo-<x>.log* (Where x increments with each save).



## 6. The Data Tab



The data tab display the waveform data channels of the bdrs session file. Controls are provided to navigate the data. The “Plot Location” time shown below the waveforms is the sample time of the leftmost sample currently displayed.

The session combobox enables the user to select additional bdrs session files within the current Job directory.

## 7. The Edit Menu

The menu has a number of actions :-

<b>Auto scale Traces</b>	Autoscale all the traces.
<b>Save Trace Settings</b>	Saves the current trace settings to in a user specified file. These settings can then be loaded and used later for other Jobs. This can be useful if the user wishes to review jobs expected to contain similar data value ranges.
<b>Load Trace Settings</b>	Load a saved trace settings file.

## 8. The View Menu

<b>List Errors</b>	When a session bdrs file is loaded a number of checks are performed on the data integrity. The List errors dialog simply lists these errors.
<b>List Missing</b>	The list missing dialog displays a list of start to end times where data is missing in the bdrs file. This missing data is also shown in the wave form display as null data between two vertical red cursors.

## 9. Further Information

For further information please look at the BDS system documentation at:

<https://portal.beam.ltd.uk/support/blacknest>.