

ploser

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Abstract:

Ploser is the program for making plots of time series of adjustments of station positions and/or source coordinates obtained in a batch Solve solution.

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1 Overview

Program ploser is for making plots of time series of the estimates of station positions and/or sources coordinates obtained in a Solve solution. It utilizes the output of the program getpar which in turn parses a huge spool file generated by Solve. User is able to select one of the plot types:

- 1) Positions of the selected station in XYZ crust fixed system. Units are mm. The differences with respect to the first point of the time series are plotted. A user subsequently lists three plots for X, Y and Z coordinate.
- 2) Positions of the selected station in topocentric UEN system (up, east, north). Units are mm. The differences with respect to the first point of the time series are plotted. A user subsequently lists three plots for U, E and N coordinate.
- 3) Coordinates of the selected source. Units are mas for both right ascension and declination. The differences with respect to the first point of the time series are plotted. A user subsequently lists two plots for right ascension and declination.

Ploser has a graphic interface. User is able to select the plot type, the station or source by clicking the box by mouse. Plots are made by using the DiaGI interface.

2 Usage

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It is assumed that the user first made a batch Solve solution and estimated positions of some stations and/or sources as local parameters. Then the user ran program getpar which parsed the spool file and generated a set of the output files. Ploser reads and parses these files.

Usage: ploser <solution_file>

where solution file is the name of one of the getpar output files. Ploser discards the extension of the specified solution file and builds the names of station position evolution file and source position evolution files by appending extensions .lst and .lso to the solution file after discarding the original extension. One of the files of source positions evolution or station positions evolution may be empty.

Examples:

```
ploser /tmp/lt12a.lso
```

```
ploser /scratch_dirt/glb1204.bas
```

After successful reading solution files, the program prints a box-menu and requests a user to select the plot type. To select the item the user may use either a key code, 1, 2, 3 or 4 or may position the cursor on the box and hit either the left or the central mouse button. The right mouse button always means to go back to the previous menu or to quit the program if the current menu is the top one.

After selection the plot type user is requested to select the object, station or source, in a subsequent box-menu. To select the item the user may use either the key code, 1, 2, 3 or 4 or may position the cursor on the plot and then hit either left or central mouse button. The right mouse button always mean to go back to the previous menu. If the number of objects is large they are put in several pages. In this case the menu will have either the bottom thick black line or the top thick black line. Positioning the cursor upper than the top line or lower than the bottom line and clicking the left or central mouse button will cause switching to the next or the previous page respectively.

To select the object, station or source, a user should position the cursor on the box with the object name and then click the central mouse button.

The plot of station position evolution or source coordinate evolution will be shown upon selection the object. To learn how to change the plot, to print it, to insert it in an article etc., refer to documentation for DiaGI. After leaving the plot (hitting right mouse button or hitting X or Q) the next plot will be shown. After leaving the last plot for this object the previous menu for object selection will be shown.

In addition to plots, ploser generates the file /tmp/ploser.sum . This summary file contains the name of station and sources, the number

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of sessions in which their positions were adjusted as local parameters, time interval and the time span in years between the first adjustment and the last adjustment for each station and source.

3 History

WHO	WHEN	WHAT
L. Petrov	1998.08.19	First version.
L. Petrov	2001.01.19	Improved interface. Updated documentation. Integrated into Calc/Solve package.

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