Contents

Introduction

MapIt 1.0 is a traverse program, designed to easily enable area and error computation and mapping of simple boundary surveys. Up to 300 sides may be entered; and scale maps drawn on any printer. MapIt is desgned to be used by those involved with field area measurement for agricultural, forestry, or research and education purposes.

Credits

MapIt was written completely with Borland's® Pascal with Objects 7.0 and the Resource Workshop. The concept of MapIt comes from the ItMap public domain mapping program, developed by Dean Tucker of the Forestry Department at North Carolina State University. MapIt is NOT public domain software.

Shareware Information

This version of this program is SHAREWARE. This means that you may try out MapIt 1.0 for 30 days to see if it fits your needs. If, at the end of this period, you find MapIt to be of use to you, you are legally and morally bound to register it by sending $10.00 U.S. to:

Fred Schatzki
Rt 1 Box 41
Hampton, SC 29924

This Shareware version is distributed fully functional. Registering MapIt entitles you to technical support, free upgrades, and discounts on future 4Space products. When registering, please indicate if you have registered any other 4Space products. Include program, version number, registered user name, and license number (if any).

4Space specifically disclaims all warranties, express or implied, including but not limited to, any implied warranty of fitness for a particular purpose. In no event will 4Space incur any liability for damages, including but not limited to, loss of profit, data or use of the software, or special, incidental or consequential damages or other similar claims, even if 4Space has been specifically advised of the possibility of such damages. This license shall be construed, interpreted, and governed by the laws of the State of South Carolina and any action hereunder shall be brought only in South Carolina. If any provision is found void, invalid, or unenforceable it will not affect the validity of the balance of this License and Limited Warranty which shall remain valid and enforceable according to its terms.

A limited license is granted to copy and distribute Mapit for the evaluation use of others, as long as it is distributed without modification, complete with all files listed below. No fee, charge or other compensation may be requested with these exceptions: Operators of electronic bulletin board systems may make Mapit available for downloading, so long as there is no specific charge for the download of Mapit. Vendors of user-supported or shareware software are required to obtain written permission from the author (see below) before distributing the software.

Use of this program signifies that you have read, understood, and agreed to the above terms.

See Also

Technical Support

Technical Support

Technical support is available free of charge to registered users. To obtain support, contact 4Space at:

Rt 1 Box 41
Hampton SC 29924
(803) 943-3848

Email:
Internet: cosmos@well.sf.ca.us
CIS: 70570,420
AOL: Taper

Main Menu Commands

These menus control data display and editing in the Main Window.

File Menu
Edit Menu
Options Menu
Map Menu
Help Menu

See Also

Map Menu Commands

Main File Menu Commands

New
Create a new traverse file.

Open
Opens an existing traverse file.

Save
Save the current file. This option is enabled only if the existing file has changed.

Save As
Save the current file under a new name and/or directory.

Print
Print the traverse data.

Printer Setup
Configure printer options, or change default printer.

Exit
Exit MapIt.

See Also

Printing
Main Menu Commands

Printing

Print functions allow you to generate hard copies of traverse data and maps. Printouts of traverse data are obtained through the Main Window while map plots are generated from the Map Window.

See Also

Printing Traverses
Printing Maps

Printing Traverses

Once a traverse file has been created, it can be printed using the mainw window File|Print command. Printing gives a listing, by side, of each bearing, distance, and balanced and unbalanced latitudes and departures.

See Also

Main File Menu Commands
Printing Maps

Printing Maps

Once a traverse has been created,a map of the area can be drawn on any printer properly configured for Windows. To print a map, first display it in the Map Window, then choose File|Print.

Maps may be printed to any supported scale; enabling easy comparison and overlay to existing aerial photographs, maps, or plats.

See Also

Map Menu Commands
Map File Commands
Printing Traverses

Map Menu Commands

These menus control map-drawing and displaying in the Map Window.

File Menu

Options Menu

See Also

Main Menu Commands

Map File Menu Commands

Print

Print the current map.

Print Setup

Configure printer options, or change default printer.

Exit

Exits map window and returns to the main window.

See Also

Map Menu Commands

Map Options Menu Commands

Increase Scale

Increase map size. Numerical scale value is reduced.

Decrease Scale

Decrease map size. Numerical scale value is increased.

Balanced/Unbalanced

Maps the traverse as either balanced or unbalanced.

Show Point Numbers

Show or hide the traverse point associated with a given vertex.

Save Changes on Exit

Save options such as window size and location, balanced/unbalanced plot, and point number displaying.

See Also

Map Menu Commands

Main Edit Menu Commands

Side
Edit data for the prompted side.

Add Side
Add an additional side and the end of the existing traverse.

Delete Side
Delete the prompted side.

Insert Side
Insert an additional side after the prompted side.

See Also

Editing Traverses
Entering Data
Main Menu Commands

Editing Traverses

Once a traverse has been input, it can be edited in a number of ways:
Sides can be edited, deleted, added or inserted. Use of various editing techniques can compensate for errors in the original data.

See Also

Edit Menu Commands
Entering Data

Entering Data

Bearings

A Bearings is entered as Degree, Minute, and Second. For example:
30º 45' 12"
Note that minutes and seconds are based on 60ths, not 100ths (i.e. one-half of a degree is 30 minutes).

Distances

Distances may be enetered in meters or feet, with up to 3 decimal places.

Moving Around the Data Entry Dialog

The TAB key may be used to move among fields in the data entry dialog.

See also

Editing Traverses

Main Options Menu Commands

Font

Change display and print font. The selected font is used in both the main window and the mapping window.

Units

Change units of measure from feet to meters. Traverses using feet will calculate area in acres; traverses using meters will calculate area in hectares.

Save Changes on Exit

Save options such as window size, position, and font on program exit.

See Also

Main Menu Commands

Main Map Menu Commands

Draw

Draws a map of the current traverse.

See Also

Map Menu Commands
Main Menu Commands

Help Menu Commands

Contents

Loads this Help file.

About

Displays program version and copyright information.

See Also

Main Menu Commands

Limitations

- MapIt will accept a maximum of 300 sides and requires at least 3 sides.
- Maximum scale is limited by the resolution capabiities of your system's monitor and printer. There is no minimum scale.

See Also

Entering Data
Editing Traverses

balanced
A traverse that has been forced to "close"; i.e. has had any survey errors mathematically removed.

Degree
1/360th of the circumference of a circle.

Main Window

MapIt's main window; traverse data input and editing is performed here.

Map Window

A window displaying a plot of the current traverse.

Minute
1/60th of a degree.

scale

The ratio of map units to "real world" units (for example, 1 inch to 1320 feet). Increasing the scale increases map size and reduces numerical scale value.

Second
1/60th of a minute.

traverse
A series of bearings and distances that describe the boundary of a given area of land.

unbalanced
A traverse that has had no mathematical correction to the survey data. It may or may not "close".