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Things You Need to Know

Introduction

MapIt 1.0 is a <u>traverse</u> program, designed to easily enable area and error computation and mapping of simple boundary surveys.   Up to 300 sides may be entered; and <u>scale</u> 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. MapIt 1.0 is Copyright © 1994 by 4Space. All Rights Reserved.

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).

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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 <u>traverse</u> 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 <u>traverse</u> data and maps.   Printouts of traverse data are obtained through the <u>Main Window</u> while map plots are generated from the <u>Map Window</u>.

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 <u>traverse</u> 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 <u>Map Window</u>, then choose File|Print.

Maps may be printed to any supported <u>scale</u>;   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 <u>scale</u> value is reduced.

Decrease Scale

Decrease map size.   Numerical scale value is increased.

Balanced/Unbalanced

Maps the <u>traverse</u> as either <u>balanced</u> or <u>unbalanced</u>.

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 <u>traverse</u>.

Delete Side

Delete the prompted side.

Insert Side

Insert an additional side after the prompted side.

See Also

<u>Editing Traverses</u>
<u>Entering Data</u>
<u>Main Menu Commands</u>

Editing Traverses

Once a <u>traverse</u> 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

<u>Edit Menu Commands</u>
<u>Entering Data</u>

Entering Data

Bearings

A Bearings is entered as <u>Degree</u>, <u>Minute</u>, and <u>Second</u>.   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 <u>traverse</u>.

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

n   MapIt will accept a maximum of 300 sides and requires at least 3 sides.

n   Maximum <u>scale</u> 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".