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Angle, Direction, Bounds

The system uses the North-South axis. East and West are secondary directions and are handled as angular deviations from North zero and South zero, except absolute due east and absolute due west. To convert a East-West axis to a North-South axis, choose Convert | Reciprocal Angle from the Edit menu.

In the data input section, the Angle data entry consists of five fields: North/South, Degrees, Minutes, Seconds and East/West. An example of an entry is N 45 00 00 E.

The NS and EW direction fields are toggle fields. Press any key other than N, S, E or W) to alternate (toggle) between valid characters. The Delete key removes the entry. The Minutes and Seconds field may be left blank.

To increment an angle (deflection), enter a plus sign (+) in the first cell and enter the increment in the direction fields. A minus sign (-) decreases the angle.

The system verifies the validity of the angle. The degree cannot exceed 90 and the minutes and seconds must be less than 60.

Special considerations for curves

For curves, the direction (bearing) is optional. If you specify a direction (by entering the absolute angle or an increment), it always refers to the bearing of the chord (even though the chord value not entered). If the direction is not specified, the curve extends from the current angle. To specify a new angle of a curve (not the chord), enter the angle with a zero distance and zero radius, then on the next line enter the data for the curve, i.e. you must reset the direction before you draw the curve.

The system only accepts curves with angles up to 180 degrees. In the unlikely event of a curve with an angle higher than 180 degrees, break it into two sections.

Distance, Metes, Radius, Chord, Curve, Arc

For straight lines, the distance is mandatory input.

For curves, the radius must be entered together with either the distance (curve length, arc length) or the chord length. The system will validate the curve values and reject incompatible input.

In addition, a curve also requires a right/left orientation indicator (Curve). This L or R flag is a toggle field. Press any key to toggle between L and R. If you leave the field blank, the system will use 'L' as a default.

The distance, chord and radius fields allow decimal values.

When you start the system for the first time, it will ask you to specify the standard of measurement (feet or meters). The standard (default) can later be changed from the File | Setup menu.

POB - Point of Beginning

Often, you will want the system to calculate the last element of the map and 'close' the map.

The system will resolve the closing leg of the map if you tag the Point of Beginning - POB (unless it is the first entry) and if you tag the last entry.

To tag the POB

- Select the entry that describes (leads to) the beginning point. The POB tag is not required if the POB is the map's actual starting point.
- Check the Point of Beginning box.

To tag the last entry

- If the closing leg is a straight line (not a curve), open the blank record at the end of the list and check the Closing box.
- If the closing leg is a curve, enter the curve parameters (radius and left/right orientation) as a separate and final entry and check the Closing box. Leave all other fields blank.
- Choose the Draw button.

Posting

See also: [Edit](#)
[Insert](#)
[Remove](#)

To post a new entry

1. If the edit fields are not blank, click the blank line at the bottom of the list of entries. The edit fields are cleared.
2. Enter all required data.
3. Choose the 'Draw' button (or Function Key F8). Or, simply click the blank row at the bottom of the list of entries.

The 'Draw' button and the Function Key 8 clear the edit fields for a new entry. 'Power users' are advised to use the Function Key 8.

4. The map is redrawn after each entry. Select the scale of the map from the Scale list.

It is recommended that you save the data from time to time, especially if the input is extensive. This safeguard will avoid re-keying in the event of a system failure. For a quick backup, choose Quick Backup from the File Menu. The data is saved in the BACKUP.MAP file in the application's directory. See [Save Data](#).

POWER USERS NOTE! All entries can be made from the numbers pad. Use a number to toggle the between values in the NS, EW, and LR fields; press Enter or Right Arrow to move to the next field; press Left Arrow to move to prior field and press F8 to confirm.

Edit

See also: [Posting](#)
[Insert](#)
[Remove](#)

To edit an existing entry

1. In the table of entries, click the cell that you want to edit.
2. The entry is transferred to the editing fields at the top of the window.
3. In the editing fields, make the necessary changes.
4. Press the 'Draw' button or press Function Key 8. Or, you may simply select another entry on the list of entries.

Insert an Entry (between existing entries)

See also: [Posting](#)
[Edit](#)
[Remove](#)

To insert a new entry

1. In the table of entries, click the row where you want to insert a new entry.
2. A blank row is created.
3. In the editing fields, type the required data.
4. Press the 'Draw' button (or Function Key F8). Moving to another line in the list of entries will also update the record.

Remove an Entry

You can remove an existing entry.

To remove an entry

In the table of existing entries, place your cursor on the entry you wish to erase and press the 'Remove' button.

Property Description

The property description is printed as a header on the map.

Enter the property description text in free form. The text wraps to the next line, but you may also use hard returns. The text should be kept relatively short. If the text is longer than approximately five lines, it may crowd out the space reserved for the map.

The property description text does not support attributes such as fonts, underlines, italics, etc. Tabs are not supported.

Clear Entry, Clear All

To clear an entry or to clear the entire screen

The 'Clear Entry' button clears the edit fields and prepares the fields for a new entry. The Clear Entry does not delete or erase posted records.

The 'Clear All' button clears the complete screen. Unless the entries have been saved on disk, all entries are irretrievable lost. See Save Data. Before the screen is cleared, the system will ask for a re-confirmation.

Calculate Acreage, Calculate Gap, Perimeter

To calculate the acreage

1. From the Map menu, choose Calculate Acreage or Calculate Hectares.
2. The acreage is displayed at the top of the map display.

The acreage is calculated to a high precision, except in a situation where a system-calculated closing section has a very pronounced curve (almost a half-circle). The acreage will not calculate if there is a closing gap larger than one foot. For a correct calculation, the input must be in feet or meters.

The acreage is not calculated for multiple lots or in a case of a bi-directional lot description.

For acreage calculations, do not intersect the path. If the map consists of more than one area, all areas must be drawn in the same direction, i.e. Clockwise or counter-clockwise. For example, if you draw plots in the shape of an '8', and you draw one circle clockwise and the other circle counter-clockwise, the calculated acreage is zero (one half offsets the other half). If you draw the same shape with two circles, all clockwise, the acreage calculation will yield the correct result.

To calculate the gap

1. From the Map menu, choose Calculate Gap.
2. The gap is displayed at the top of the map drawing.

To calculate the perimeter

1. From the Map menu, choose Calculate Perimeter.
2. The perimeter is displayed at the top of the map drawing.

Print Map and Data, Copy the Data to the Clipboard

To print the map

1. From the File menu, choose Print Map; or press the Print button.
2. In the Print dialog, select the printer (if necessary).
3. Choose OK.

The system prints the short property description (if entered), the map and the data, referenced to the map by index numbers. To avoid overcrowding, some reference numbers may be omitted.

The map can be printed in a frame. To print the frame, click the Frame check box.

To print the data

1. From the File menu, choose Print Data.
2. In the Print dialog, select the printer (if necessary).
3. Choose OK.
4. The data is converted to a columnar format and printed.

To copy the data to the clipboard

1. From the File menu, choose Copy Data to Clipboard.
2. The data is converted to a text format and copied to the Windows Clipboard.

Save/Open

You may want to save the data for later re-use.

To save or open the file

1. From the File menu, choose Save As (or Open).
2. In the Save As dialog, specify the file name. Ensure that you are in the correct directory.
3. Choose OK.

Exit

To exit the system

From the File menu, choose Exit, or press the 'Quit' button.

Clipboard: Cut, Copy, Paste

The clipboard functions allow you to copy text to and from the Windows clipboard. Text in the clipboard can be copied across various Windows applications.

The **Cut** function removes the highlighted text and stores the removed text in the clipboard. The **Copy** function copies the highlighted text to the clipboard but does not remove the highlighted text. The **Paste** function copies the text in the clipboard to the exact spot of the insertion point (the flashing vertical bar).

To use Cut and Copy

1. Highlight the text to be copied or cut.
2. From the Edit menu, choose Cut or Copy.

To use Paste

1. Place the insertion point to the spot where you want to insert the text.
2. From the Edit menu, choose Paste.

Sample, Tutorial:

When you start the system for the first time, it will ask you to specify the standard of measurement (**feet or meters**). The standard can later be changed from the File | Setup menu.

From the Help menu, choose Demo Sample 1, 2, 3 or 4.

The system will display the data and the map of a fictitious lot. This sample lets you practice with the system and test the system to its limits. Change the data, add data, remove entries, print, file, retrieve, etc.

To make your entry effective (and to redraw the map) always press the Draw button, select the Function Key 8 or click the blank row at the bottom of the grid.

The data is hard-coded in the program, and you cannot destroy it.

To restore the sample, simply re-select the Sample menu.

Copyright, Registration, Technical Support

This system was developed by Informatik Inc, P.O. Box 868, Devon, Pennsylvania 19333. For information on program modifications, systems integrations and custom applications, please contact Informatik Inc.

This is a copyright-protected shareware product. If, after review and evaluation, you like the software, please register and pay the registration fee. Upon registration and payment of the registration fee, Informatik Inc will send you the latest master diskette, a print file of the User Guide and a registration certificate. Registered users will receive lifetime technical support and are entitled to free software upgrades during first year. Shareware is based on trust, and we hope that all users will register.

To register

From the About menu, choose Registration, Copyright and follow the instructions.

To obtain technical support

From the Help menu, choose Technical Support and follow the instructions.

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Navigate the Screen

There are many ways to navigate the screen. You can move to a field in one of the following ways:

- Click the field

To move to the next field

- Press Enter.
- Press Tab.
- Press the Right Arrow key.

To move to the previous field

- Press Tab + Shift.
- Press the Left Arrow key.

POWER USERS NOTE! All entries can be made from the numbers pad. Use a number to toggle between values in the NS, EW, and LR fields; press Enter or Right Arrow to move to the next field; press Left Arrow to move to prior field and press F8 to confirm.

Multiple Lots

To draw multiple lots with a **common Point-of-Beginning**, draw the map in the customary fashion. If you want to calculate the acreage, be sure that all lots are consistently drawn either clockwise or counter-clockwise.

To draw multiple lots with a common reference point

1. Draw your first lot. Optionally, reset the Point of Origin by checking the Point of Origin box.
2. Select a blank row at the bottom of the grid.
3. In the edit panel at the top of the screen, click the New Lot check box. A "N" flag is inserted in the POB column.
4. Starting on the next row below, post the values for the second lot in the usual manner.
5. Repeat the process for other lots.

The acreage is not calculated for multiple lots. Multiple lots cannot be drawn if you use a bi-directional lot description.

Bi-directional Maps

Sometimes, you may want to draw a map and close it from two directions. For example, one path leads from the Point-of-Beginning to the shore of a lake. The second path leads from the same Point-of-Beginning to a different point along the shore. The system then must calculate the distance and angle between the two shore points and close the map.

To close a map drawn from two directions

1. At the point where the path branches out (normally the Point of Beginning), check the Point of Origin box. The letter 'O' is inserted in the POB cell. (Essentially, this resets the Point of Origin)
2. Specify the first path.
3. At the end of the first path, click the Point of Beginning box. The letter 'B' is inserted in the POB cell.
4. On the next blank line, check the 'New Lot' box. The letter 'N' is inserted in the POB cell. (This re-positions you at the 'Point of Origin'.)
5. Specify the second path
6. At the end of the second path, click the Close box. The letter 'C' is inserted in the POB cell.
7. Press the Draw button.

When drawing bi-directional maps, you cannot calculate the acreage. Also, only one lot can be drawn on the screen.

Scale

The default scale of the map is Standard. In this mode the map is scaled to fit comfortably into the display window and the printed page. You can also select Minimum, Small or Maximum to shrink or enlarge the map, but the scale is still calculated by the system.

You can select a fixed scale (100:1, 200:1, 400:1 and 800:1). If you select a fixed scale, the map is centered but it may exceed the boundaries of the screen and/or printing paper.

To specify your own scale, choose Add Customized Scale from the Map menu (or select Custom in the Scale List). In the prompt dialog box type the desired scale (e.g. 1000) and choose OK. The new scale is added to the list of scales. The customized scales are deleted when you log off. For a oneoff scale, you can simply type the scale in the scale box.

The specified fixed and customized scales are applied for printing only; the screen display always uses the automatic scaling.

Conversions

Some traditional measurements (chains, links, rods, perches, yards, furlongs, meters) can be converted to feet. Also, angles that are not based on the North-South axis can be converted to the reciprocal angle to facilitate input. You can also calculate the arc length and the chord. To convert the entire table, please read the Global Conversion section below.

To convert a value

1. From the Edit menu, choose Conversions.
2. Chose the type of conversion.
3. Enter the value and press enter.
4. The converted value is shown in the display box. Measurement values are also copied to the Windows clipboard and can be pasted into other fields.

Angle Reciprocals

For example, if you want to convert a EAST 10 15 20 SOUTH angle to the equivalent angle on the North-South axis, choose Conversions | Reciprocal Angle from the Edit menu and enter 10 15 20. The system returns an angle of 79 44 40. This is the SOUTH 79 44 40 EAST angle on the North-South axis.

Global Conversion

The Global Conversion converts the entire table from meters to feet, or from feet to meters. The Global Conversion can be found in the Edit menu.

Magnification (Zoom)

The map can be displayed magnified. This will allow you to inspect any overlaps in property lines.

To magnify the map, choose Magnify from the Map menu. The magnified map is displayed in new window. Most likely, the window will appear blank (because the upper-left segment of the map does not contain any sections). Use the vertical and horizontal scroll bars to 'zoom in' on the section that you want to examine.

The magnified map is for viewing only. You cannot print the magnified map.

