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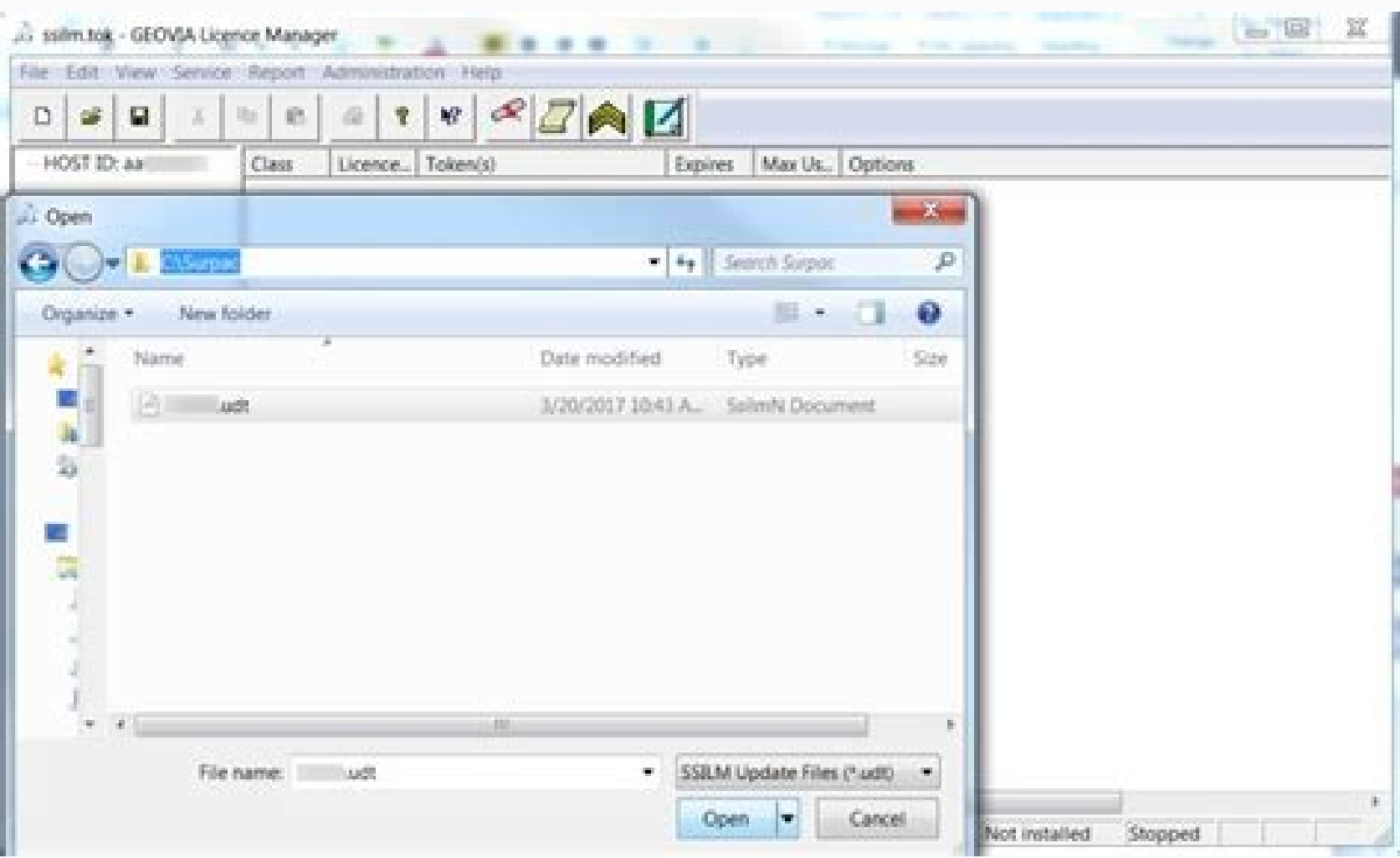
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Click the Preview button again to close the Preview pane. Click the string in und. layout.str. Select Set as work directory. The second line contains the axis record. When the pane is undocked, it floats so you can move it to any part of the Surpac window. 25. Note: When you hold the CTRL key and drag a file into Graphics, the cursor is displayed with a plus sign (+). To rotate the data, choose Planes > 2 D planes mode, then click and drag in Graphics. Click Cancel. Surpac™ 6.6 Page 104 of 207 Introduction Creating data Task: Create a simple pit design 23. Double-click Without moving the mouse, click the left button twice rapidly. Many graphical operations are quicker and easier to perform using the data-centric approach. Surpac™ 6.6 Page 206 of 207 Introduction References Task: Produce a plot of a pit using autoplot References For further information on this topic and related articles, log onto Gemcom's Knowledge Base at www.gemcomsupport.com Surpac™ 6.6 Page 207 of 207 Introduction 10. Enter the information as shown to select the drawing method, colour, marker type, and text properties for displaying the four spot height strings. Description fields are named in the format D, such as D1, D2, D3. It provides a method for estimating volume, tonnage, and average grade of a 3D body from sparse drillhole data. Note: marker,d1 instructs Surpac to draw a marker for each point, using the d1 field as a label. In the Toward field, type 50. String 300005 is closed, since the first and last points are the same. Click Reset graphics. Right drag Press and hold down the right mouse button. Surpac™ 6.6 Page 66 of 207 Introduction Viewing and saving data Task: Change display style d. The Y, X, and Z values of each of the two end points of the axis are stored in the following order: Y(1), X(1), Z(1), Y(2), X(2), Z(2). Open topo1.dtm and pit. design1.dtm in Graphics. Surpac™ 6.6 Page 166 of 207 Introduction File tools Task: Colour points by sample values The D1 value for each point is displayed. Note: If the installation menu does not appear, use Windows Explorer to navigate to the DVD and double-click autorun.exe. 2. Select local, and click Apply. Surpac™ 6.6 Page 100 of 207 Introduction Creating data Task: Create a simple pit design 11. Next, you will colour the blocks by gold values. However, if the text string files are very large (more than 5 MB), it may be worth saving them as binary files to reduce the time it takes to load the data into Graphics. Files used in this tutorial are stored in the folder vleno_data\tutorials\introduction. By clicking once to highlight a field on a form, and then right-clicking, you see options to help you fill in the form. Last value Selecting this item causes the field to keep the last value regardless of the value that Surpac inserts. This attribute row, right-click below the row and selectAdd. With this in mine, you can append data from different files into one layer, and create a new file. All layers are contained within the Surpac Work Area (SWA). Page 158 of 207 Introduction File tools Task: Convert section coordinates to real-world coordinates The strings in ore sections1.str are typeface indicates one of the following: 11 Bold 11 A file name, path or URL. Open bench105.str in Graphics. Surpac™ 6.6 Page 71 of 207 Introduction Viewing and saving data Task: Determine bearing and distance between two points 4. The corridor width is equal to the towards distance plus the away distance. Click the Search tab. Block models A block model contains three dimensional spatial data. Surpac™ 6.6 Page 114 of 207 Introduction Managing data in layers Task: Create layers The SWA now contains: Surpac™ 6.6 Page 115 of 207 Introduction Managing data in layers Task: Append data to a layer with the Navigator Appending data to a layer You can append data to a layer by holding the CTRL key when dragging a file into Graphics. Surpac™ 6.6 Page 9 of 207 Introduction Introduction Mouse conventions Action Description Click Quickly press and release the left mouse button without moving the mouse. Surpac™ 6.6 Page 98 of 207 Introduction Creating data Task: Create a simple pit design 4. In order for a DTM file to remain valid, the string file from which it was created must remain unchanged from the time when you created the DTM. Therefore, if you modify the string data, you must also recreate the DTM. You can open and edit them in the Surpac plotting window or send them to a plot device such as a plotter. Where the D1 value is greater than 10, the D2 value has been topcut to 10. The help for the Licence Manager is displayed. The Plotting Tutorial describes how to create complex plots. The clipped strings are displayed. Right-click anywhere in Graphics and select Connect points from the shortcut menu. In the Status bar, click the surpac button, and select Close. Geological database surpac.dbb Drillhole database (DDb) files are used to connect to relational drillhole databases. Click the surpac database icon on the Status bar and select Display drillholes. Click Apply in the Save File form. Surpac™ 6.6 Page 201 of 207 Introduction More Surpac functions Task: Display, constrain, and report a block model Note: To add a new report attribute row, right-click below the row and selectAdd. With this in mine, you can append data from different files into one layer, and create a new file. All layers are contained within the Surpac Work Area (SWA). Page 158 of 207 Introduction File tools Task: Convert section coordinates to real-world coordinates The strings in ore sections1.str are sectional interpretations of ore zones that have been digitised from a digitising tablet. Drag the pit. design toolbar to a location where you can clearly see it. The file ore. pit. topo.swa is created. You can also use an option on the Open File form to append data to a layer. Open transformed. pit1.str in Graphics. From the Selection menu on the Tools toolbar, click Select String/Object. Surpac™ 6.6 Page 54 of 207 Introduction Planes Task: Creating planes using Quick planes 2. Choose Display > Dynamic 2D grid. Surpac™ 6.6 Page 39 of 207 Introduction Getting help Task: Find support office contact details The contact details of the regional office are displayed. A new page opens. Page 62 of 207 Introduction File tools Task: Work with multiple viewports Four viewports with different views of the data are displayed. Open block. model.mdl in Graphics. Click Copy. Surpac™ 6.6 Page 171 of 207 Introduction File tools Task: Calculate the area of an ore zone within a pit Task: Calculate the area of an ore zone within a pit You will intersect closed, clockwise ore zone strings at a midbench elevation (105) with a closed, clockwise midbench contour of a pit design at the same elevation. Surpac™ 6.6 Page 149 of 207 Introduction Triangulated surfaces Task: Create and validate a solid model The solid is now closed at the end segment. Legend pane This is the area where you can see the legends for data in Graphics. For example, you can import any file that has one of the following extensions: .dxf, .dwg, .dgn, .dm, .shp, .dgd. Combo box or Drop-down list Closed version of a list box with an arrow next to it. Use the scroll wheel on your mouse to zoom in to a drillhole as shown below. Surpac™ 6.6 Page 138 of 207 Introduction Triangulated surfaces Task: Create a DTM — file-based method 7. 13. Note: Triangulation uses segment numbers. Note: To see all of the steps performed in this task, run 06b. block. model.tcl. Hold the CTRL key, and click points 11 and 14. Surpac™ 6.6 Page 88 of 207 Introduction Viewing and saving data Task: Use string/object mode to delete and clean strings 19. Task: Save a file 1. Choose Display > 2D Grid. Introduction Viewing and saving data Task: Use orbit mode to rotate data Note: To see all of the steps performed in this task, run 02e. saving. data.tcl. Open pit1.str in Graphics. Click OK to finish the colour selection. As part of this process, you will create a new layer where the data is stored. Label Text attached to any option, box, button, or to any other element of a window or form. Task: Clear the message window 1. In the preceding example, if point 105 is selected first, then the resulting string number will be 1. Open solid. model.dtm in Graphics. Click and hold down the left mouse button at point 7, then drag to point 8 and release. For this row... Select this marker type... 1 2 3 4 g. Note: You might need to click and drag the model to see the colours. Next, you use the select tool to select and renumber all segments of string 2 to string 1. In the following example, the plane thickness is a + b. From the shortcut menu, choose Profiles > tutorials. 32. Surpac™ 6.6 Page 175 of 207 Introduction File tools Task: Clip ore blocks inside a pit 5. For example, if you select Last value if blank for the Layer field of the Open File form, the text in the Layer field does not change, but if you select Last value if blank for the Location field, the last file name used is shown. Help Context-sensitive help button. Surpac™ 6.6 Page 203 of 207 Introduction More Surpac functions Task: Produce a plot of a pit using autoplot Plotting with autoplot There are two ways to create plots in Surpac: 11 to create simple plots from data displayed in graphics, use Autoplot to create complex plots from files on disk: 1 use the Plotting > Entity submenu to create or modify entity definitions 1 use the Plotting > Map submenu to create or modify map definitions 1 use the Plotting > Process submenu to create the final plot This section describes Autoplot only. When a database is open, the name of the database is displayed on the Status bar at the bottom of the Surpac window. Surpac™ 6.6 Page 179 of 207 Introduction Advanced interface operations Task: Create a customised menu bar The Modify Menus and Toolbars menu is displayed. On the Tools toolbar, click the Box selection icon. This means click the File menu, move the pointer over the Open command, and select Block model on the submenu. Home > professional > Gemcom GEMS 6.5 + New Crack September 2, 2020 professional Gemcom GEMS is software in the field of group geology and mining planning. GEMS software provides a solution for professional mining in underground exploration, modeling, mine design, long-term planning and production scheduling. With GEMS unique central database, geologists and engineers can access organized and updated geological and mining data. The Status bar in the lower-left corner of the Surpac window shows you the current setting (2D or 3D), three-dimensional solid models (3DMS): A solid model is a set of triangles which represents a three-dimensional shape, such as an ore zone or an underground mine design. If you store planes temporarily, when you exit Surpac, the planes are removed from the planes folders. Open surpac.dbb (a geological database) in Graphics. Then you select the Some non-graphical operations can only be performed using the function-centric approach.. Type the words DTM Maths, and click Search. A maximised copy of the current view on a tab called View 2 is displayed. Start Surpac. Choose Customise > Customise menus/toolbars. Surpac™ 6.6 Page 82 of 207 Introduction Viewing and saving data Task: Use select mode to break, join, and renumber segments 7. Open ore. solid1.dtm in Graphics. This task demonstrates the impact of using strings as breaklines. Surpac™ 6.6 Page 198 of 207 Introduction More Surpac functions Task: Display, constrain, and report a block model 13. Right-click anywhere in Graphics and choose Select strings from the shortcut menu. The Y field of ore sections1.str represents the real-world elevation, or Z value. If a file has this icon next to it in the Navigator, you can open the file in Surpac. Note: To see all of the steps performed in this task, run 05d. apply. boundary.tcl. To install a 64-bit version of Surpac: a. Choose File > Save > Graphics workspace. Note: To fill in the Command box, you have to click the Ellipsis button and navigate to a TCL file. After you type each letter, the help system selects the index entry that is the closest match. Click Select Point/Triangle. Task: View segment properties 1. For example, a closed segment representing an ore zone could have the gold grade, silver grade, and specific gravity stored in separate description fields. If the information is stored in that order, they could be assigned as follows: D1: gold grade D2: silver grade D3: specific gravity Data numbering Strings, segments, and points are identified by unique numbers. To restore a pane that you have closed, select View > Dockable windows, and click the pane that you want to restore. At the bottom of the menu, click the Select tool. Without written permission, you may not sell, reproduce, store in a retrieval system, or transmit any part of this documentation. The log file is a report containing information about the DTM. Surpac™ 6.6 Page 145 of 207 Introduction Triangulated surfaces Task: Create and validate a solid model 4. Using the Navigator, you can manage your files and directories by creating new folders, cutting, copying, pasting, and deleting files and folders. You can use ranges to refer to the ID of filenames. For example, you can refer to the files: geo130.str, geo140.str, geo150.str, geo160.str, geo170.str using the following syntax: Location: geo ID: 130,170,10 String directions When you view closed strings in the XY plane, the points have an order that is either clockwise or anticlockwise. Note: Manually editing string files is not recommended. The following image shows the Main menu bar. In the File Filter in the Navigator, select. Surpac Files (.mdl,.dtm,.str). Right-click in the area next to the menu titles and select Toolbars. Note: Make sure you select the Lock XY scale check box. Surpac™ 6.6 Page 87 of 207 Introduction Viewing and saving data Task: Use select mode to break, join, and renumber segments 17. It is a text file that tells Surpac which tables and fields to read from and write to in the client database. Press ENTER. This creates a new button on the Pit design toolbar. For example, you can select data in a string file, and right-click to display functions that Surpac can perform on the data. The Tools toolbar now displays Box selection mode: Point e shows where the drillhole trace exits the plane. Choose Display > Dynamic 2D grid. The installation menu appears. Data ranges You can use a range to refer to groups of data numbers, such as strings, segments, and points. Surpac™ 6.6 Page 58 of 207 Introduction Viewing and saving data Task: Work with multiple viewports Viewing and saving data Multiple viewports You can view data in different ways using multiple viewports. String 8 consists of two segments. Task: Identifying the active plane using the Status bar 1. Point numbers are displayed. 1 Click the button at the top right corner of the Surpac window. The previous plane is displayed. You can modify the projection of contents. The help text changes as you tab to different fields in the form. Surpac™ 6.6 Page 108 of 207 Introduction Creating data Task: Create a simple pit design 41. Right-click the right viewport, and choose Viewport > Split horizontally. For example: Open pit1.str into Graphics. The comma (,) is used for a range that includes a start, an end, and, optionally, an increment. The profiles are available by right-clicking in the empty space and selecting from the available profiles. Minimum Recommended Windows Microsoft Windows® 32-bit Professional, Enterprise, Ultimate Microsoft Windows® 64-bit Professional, Enterprise, Ultimate Memory 4GB CPU i5 2.3Ghz quad core i7/Xeon 2.2Ghz + quad core HDD 1 x 500GB 7200RPM SATAII 500GB 2700RPM SATA or SAS 10,000RPM (data) + SSD (for Windows and Applications) Graphics card Nvidia NV5 420/Q1000m Nvidia Quadro Q2000/m or Q4000/m 8GB (3.xGB max for Surpac 32-bit process) Note: 8GB allows 3.2+ Windows without paging. License Surpac using a token number and a sentinel 1. Click string 30008 as shown. In the lower left corner, click the Table of Contents tab. Last value if blank Selecting this command causes the field to keep the last value you entered when the application does not supply a value. Features and facilities of Gemcom GEMS: Simple information flow, access to central data, increase compatibility, improve collaboration, provide information when needed to make decisions quickly Microsoft Technology Standard Industry integrates with existing technology infrastructure and scalability assurance system Import block model projects from external sources Work on tasks such as estimating resources in one package and presenting them to another user Reduce workflow steps with the ability to select multiple profiles at the same time Working with large datasets and using more than 100 profiles with special "integration" and reporting Advanced ability to import Optech 3D (.xyz files) and mesh files Extensive ability to import and export Surpac string files Import the Surpac digital terrain model file as surfaces or solids Improved sorting capability in generating GEMS scheduling more efficient scheduling Maintaining a database of geological data Statistical analysis of geophysical data Information Design and planning of mining Construction of HIA model real function according to surveying survey creation and maintenance of mine and graphic documents Installation guide See the Readme.txt file. Task: Use segment/trisolation mode to reverse segments 1. Use the scroll wheel to zoom out, then click and drag with the left mouse button in Graphics to move the plot outline. Choose Display > Point > Attributes. Naming conventions The objects you create in Surpac are numbered by a system

[illegible]

neither the authors nor Gemcom assume responsibility for errors or omissions. Introduction Viewing and saving data Task: Change selection modes 5. 1 Shift X is the difference in easting between X1 (old) and X1 (new). Surpac must be installed on the local computer and your user customisable files saved locally in the share folder. Note: To see all of the steps performed in this task, run 06a display drillholes.tcl. All the layers are deleted except the default main graphics layer. Right-click in Graphics to display a shortcut menu, and select Delete. Plane 7450N is displayed with the default viewing corridor. Surpac™ 6.6 Page 16 of 207 Introduction Getting started Task: License Surpac If you see the Update licence form, a valid licence does not exist. Planes groups Planes groups are a collection of one or more parallel planes saved to the Plan, Vertical, or Inclined folders in the Planes panel. Choose Display > Strings > With string and segment numbers. Choose Edit > Segment > Expand/Contract. Surpac™ 6.6 Page 83 of 207 Introduction Viewing and saving data Task: Use select mode to break, join, and renumber segments 9. In this mode you can zoom in and out, pan, and rotate the data. Surpac™ 6.6 Page 139 of 207 Introduction Triangulated surfaces Task: Create a DTM — file-based method The pit is displayed. Task: Saving a plane 1. In the lower left corner, click Table of Contents. Click the centre of the circle, drag to the location shown, and then release the mouse button. The points have been classified into four levels of concentration, each represented by a separate string. Use the wheel button to zoom in or out in relation to the current location of the pointer. You can see a horizontal slice of ore zones at an elevation of 150. When Surpac is installed, click Finish. Breaklines and spot heights Breakline strings are those which represent linear physical features that you can see in the real world e.g. crest of a pit, a fault in a geological map, a contour in a pit. From the Navigator, right-click bench105.str, and select Edit. When a plane is active, data within the corridor is displayed, and data outside the corridor is hidden. The interface now contains a new set of menus and toolbars that cover the functionality for processing data from a geological database. However, if you store planes permanently, the planes will be available for future sessions in Surpac. Several triangles in the DTM do not reflect the desired results. Configuring windows and panes in the interface You can modify panes in the interface using the three buttons on the top right side of the pane: 1 1 1 Surpac™ 6.6 toggle floating toggle auto-hide close Page 188 of 207 Introduction Advanced interface operations Task: Run two functions from the Function Chooser Toggle floating The Toggle floating button allows you to “dock” or “undock” the pane. The icon now displays Select selection mode. The Save function saves the contents of the active layer to a file. For strings that are not defined as spot height strings, new points are created where the boundary string intersects the line. 10. The lighting is reset to its original state. Modifying the Surpac desktop icon All of the files in this tutorial are stored in a specific directory. Each time you start Surpac, you will need to have the working directory set to that folder. The following steps describe how to create an icon that automatically sets the working directory when you start Surpac. Surpac™ 6.6 Page 11 of 207 Example Introduction Surpac concepts Forms Surpac concepts Overview In this chapter, you will learn about: 1 1 Surpac data types function-centric versus data-centric operations Surpac data types Surpac uses many different file types. Move the pointer over the Surpac icon on your desktop. Task: Modify the Surpac icon so that the work directory is set automatically 1. Before After Only the X and Z values in the Status bar change as you move the segment. On the Tools toolbar, click Box Select Points. Note: GEOVIA recommends that you use the default locations. Click the Select tool icon again. To validate the solid, choose Solids > Validation > Validate object/trisolation. Click Scan. Menu conventions In this documentation, the following example demonstrates the syntax used for menus and submenus: Choose File > Open > Block model. Note: To see all of the steps performed in this task, run 03a create_dtm_graphics.tcl. The Status bar shows you the name of the active plane. When the pane is docked, it is fixed to an area of the Surpac window. The third line is the start of string data, and is stored as String number, Y, X, Z, D1, D2, D3, ... D100. Choose File > Save > String/DTM file. The data rotates in three dimensions. If point 216 was selected first, the resulting string number will be 8. You can see the text “String Maths” is highlighted. Open kbn135.str in Graphics. Surpac™ 6.6 Page 132 of 207 Introduction Triangulated surfaces Task: View a DTM in Graphics DTM conventions 1 1 DTM cannot overhangs or vertical surfaces. Surpac™ 6.6 Page 148 of 207 Introduction Triangulated surfaces Task: Create and validate a solid model 12. The corridor thickness is also known as the projection distance. Click Start, select All Programs, and GEOVIA, and Surpac 6.6. Licensing Surpac The instructions below are for installing a single user licence. In order to proceed, you will need: 1 1 Surpac v6.6 installed, as previously described a USB or parallel sentinel a valid token number or licence file If you do not have Surpac or a sentinel, please contact your local support office. 40. The Plane Position form appears. The SWA now contains: Surpac™ 6.6 Page 121 of 207 Introduction Managing data in layers Task: Append data to a layer with the open file command 6. Click the topic that is ranked 2 in the list, DTM Maths. Click in the Text cell, select Properties, and enter oru for the Units and 8.5 for the size. By default, if you have not selected a plane, the initial plane that is active when you start Surpac is a horizontal plane that has an elevation of zero with projection distances of 10000 above and below. Task: Display a string file in the Preview pane 1. Task: Pinning the Planes panel to Surpac 1. The Layers pane still only shows one layer, the main graphics layer. Choose View > Zoom > Out. Open pit_new1.str in Graphics. Click Using the Internet. The plane group is listed in the Planes panel. A temporary plane is created at 7400 N. Surpac™ 6.6 Page 86 of 207 Introduction Viewing and saving data Task: Use select mode to break, join, and renumber segments 15. You can use DTM VOLUMES to compute the volume between two DTM surfaces, contained within a boundary string. Planes definitions are simply referred to as planes. Task: Display, constrain, and report a block model 1. Task: Create a boundary string – graphics-based method Note: When using the graphics-based method you must open the DTM in Graphics. Choose Surfaces > DTM File functions > Line of intersection between two DTM. Surpac™ 6.6 Page 141 of 207 Introduction Triangulated surfaces Task: Create a boundary string – graphics-based method 4. The plane is saved. Application Selecting this item causes the field to display the value supplied by Surpac. Task: Open a file using the menu 1. Choose Surfaces > Volumes > Cut and fill between DTMs. Surpac™ 6.6 Page 143 of 207 Introduction Triangulated surfaces Task: Calculate cut and fill volumes between two DTMs 3. In Windows XP, the default path is C:\Documents and Settings\All Users\Public\GEOVIA\Surpac\66\demo_data\tutorials\introduction. Note: If two segments of different string numbers are connected, the string number of the first point selected is used for the result. Notice transformed pit1.str has been shifted north and east, and it has also been rotated. The online help for the DIGITISER function is displayed. Select Profiles > geology database. Otherwise, use the self-service licensing method that is described in the second procedure. Then move the mouse in the direction that the text specifies. The change you made was to the width of only plane 7200N. Drag the pit_design menu bar to a location where there is some space at the top of the Surpac window. This happens because the Enable auto help check box is selected. Click any block. Choose Create > Digitise > Properties. Specifically, do the following steps for each of the Custom Styles rows 1 to 4: a. This is a two-point line used in some sectioning functions. The Design string button displays the current design string number. When you install the software from the DVD, the tutorials are installed to the following folder location: demo_data\tutorials where is the folder where the Surpac shared files are installed. 5. Task: Use the index to search for information You can use the Index to find the information you need. Surpac™ 6.6 Page 93 of 207 Introduction Viewing and saving data Task: Move data in a plane Task: Move data in a plane 1. Surpac refers to the object by the object and trisolation number that you assigned. The object number must be an integer within the range of 1 to 32000. The trisolation number must be a positive integer. Surpac™ 6.6 Page 119 of 207 Introduction Managing data in layers Task: Append data to a layer with the open file command 5. The blocks that have a gold value greater than zero are displayed. Page 43 of 207 Introduction Strings Task: View string data Viewing string data Here is an example that demonstrates the previous concepts. Hold the CTRL key, and select two points to be joined (130 and 25). Text that a procedure has instructed you to type. The DTM file is saved automatically as pit_design1.dtm. Move the pointer within Graphics. Requirements Before proceeding with this tutorial, ensure you have the following items: 1. Enter the token number, and click Validate. The file pit_design1.str is displayed. For example, specific gravity, rock type, and estimated sample values. Similarly, to fill in the Image box, you must click the Ellipsis button navigate to an icon file in the icons folder. Introduction Viewing and saving data Task: Use point/triangle mode to delete points 1. Note: The new pit design menu bar “floats” above the Surpac window. The view corridor is changed to display the data 50 units away from the view, and 100 units towards the view. Surpac™ 6.6 Page 181 of 207 Introduction Advanced interface operations Task: Display toolbars and create a customised toolbar 6. Task: Produce a plot of a pit using autoplot 1. The Planes panel shows a check mark next to the active plane. Choose File > Save > string/DTM. Task: Changing the viewing corridor using the Planes panel 1. The following list describes the different formats and their meanings: Surpac™ 6.6 Page 8 of 207 Introduction Introduction Keyboard conventions Text Format Meaning Text or data that varies with each input is shown in italic font and enclosed in angle brackets. Clear the Display block edges check box, and click Apply. Open waste_dump.dtm in Graphics. A prompt to select the foresight point is displayed. Layers and the Surpac work area When Surpac starts, it creates an area in memory called the Surpac Work Area (SWA). Surpac™ 6.6 Page 44 of 207 Introduction Strings Task: View string data The data in this file represents a horizontal view, also known as a plan view, of a pit design, the survey stations, and the geology for one level in a pit. The data is organised as follows. For example, randomly surveyed points or borehole collars. Viewing a DTM surface Task: View a DTM in Graphics 1. Enter your GEOVIA Support user name and password. Block model Plot files Macros Plugins Styles file Surpac™ 6.6 block.mdl A block model is a form of spatially-referenced database that provides a means for modelling a 3D body from point and interval data such as drillhole sample data. Close the log file window. By default, the panel is collapsed. Surpac™ 6.6 Page 81 of 207 Introduction Viewing and saving data Task: Use select mode to break, join, and renumber segments 4. However, for the file-based method to work, you do not need to open any files in Graphics. Surpac™ 6.6 Page 137 of 207 Introduction File tools Task: Convert section coordinates to real-world coordinates The File tools menu contains several different functions that you can use to filter, classify, transform, split, combine, intersect, and perform mathematical operations on string files. By intersecting two closed strings you produce a string which has one or more segments which represent the area common to the two strings. Strings 1, 2, 3, and 30005 are displayed. Surpac™ 6.6 Page 107 of 207 Introduction Creating data Task: Create a simple pit design 38. To enable you to work more efficiently with strings, it is important that you understand how Surpac organises and uses data stored within a string file. Choose File > Open > String/DTM. The icon now displays String/Object selection mode Surpac™ 6.6 Page 76 of 207 on the . Task: Colour points by sample values Click Reset graphics. Task: Create a customised menu bar 1. The Design grade button displays the current design gradient. Next, you will set the string number for the top of the pit. A black triangle subrune. Note: You will need login credentials to enter the GEOVIA Support site. Surpac™ 6.6 Page 165 of 207 Introduction File tools Task: Colour points by sample values Data in soil2.str is contained within the boundary. Any file loaded into Graphics has Y, X, and Z coordinates. Choose Surfaces > Create DTM from Layer. 1 1 Surpac™ 6.6 Clockwise strings represent an area of inclusion. Click and drag in the upper left viewport to rotate the data. Surpac™ 6.6 Page 180 of 207 Introduction Advanced interface operations Task: Create a customised menu bar 2. Surpac™ 6.6 Page 186 of 207 Introduction Advanced interface operations Task: Run two functions from the Function Chooser Task: Run two functions from the Function Chooser 1. This software and documentation is proprietary to Gemcom and, except where expressly provided otherwise, does not form part of any contract. Choose Create > Circle by drag. Click pit1.str in the Navigator. Surpac™ 6.6 Page 23 of 207 Introduction The Surpac interface Task: Modify the Surpac icon so that the work directory is set automatically The Surpac interface So that you can see the Surpac interface with some data files in the Navigator, ensure that you have started Surpac and set the work directory as described in the Setup for This Tutorial chapter. Task: Determine bearing and distance between two points 1. Active plane The “active plane” is the plane on which the data is projected in Graphics. All data that is displayed in Graphics is stored within one or more layers, which are located within the SWA. Task: Access field help and form help 1. Numbers 1, 2, and 3 are not displayed in Graphics. In the Modify Menus and Toolbars form, select the pit_design toolbar and click New. After the Status bar displays coordinate values as well as the movement. Scroll down in the file to see the data as shown. Surpac™ 6.6 Page 28 of 207 Introduction The Surpac interface Task: Display a string file in the Preview pane Preview pane The Preview pane displays string data without the need to load it into Graphics. In the Planes panel, right-click 7200N. You can also click the pane by moving it to one of the edges of the screen, or to an existing pane. 27. The plane is Dynamic. For example, if you select Last value in the Layer field of the Open File form, the Layer field displays the name of the layer that you used on the last occasion you used this form. Surpac™ 6.6 Page 38 of 207 Introduction Getting help Task: Find support office contact details Support You can contact your local support office by phone or email. Select the segment as shown. Right-click in Graphics, and select Select segments. To rename the menu bar: a. Type the alias PS (for Plot Strings) into the Function Chooser. The spot height string number 30003 is displayed in the message window. Surpac™ 6.6 Page 184 of 207 and Introduction Advanced interface operations Task: Select the geology database profile Note: If you have installed Surpac in the default directory, the full path to the TCL command scripts folder is: C:\Users\Public\GEOVIA\Surpac\66\share/resource/scripts/toolbars/ 4. Surpac™ 6.6 Page 36 of 207 Introduction Getting help Task: Search the online help 4. Choose Solids > Solids tools > Report volume of solids. Page 70 of 207 Introduction Viewing and saving data Task: View segment properties 6. Next, you will set the slope wall angle to 45 degrees. Surpac™ 6.6 Page 68 of 207 Introduction Viewing and saving data Task: Change display style If you double click a string in the Legend pane, the Set Drawing Styles form will now look like the following. Task: Use the Reset graphics button from the toolbar 1. By clicking on Tool properties, you can restore the pane to its original position. Surpac™ 6.6 Page 105 of 207 Introduction Creating data Task: Create a simple pit design The segments representing the top and bottom of the pit are displayed. Title Title of the form. Click Install 64-bit version. To restore the whole interface to its default state, right-click an empty area in the toolbar region, and click Restore. Open soil2.str in Graphics. Click and drag in Graphics to rotate the data as shown. Hold the SHIFT key, and then drag pit1.str into Graphics. Alternatively, you can use the F2 key as a shortcut. Surpac™ 6.6 Page 197 of 207 Introduction More Surpac functions Task: Display, constrain, and report a block model 11. Surpac™ 6.6 Page 128 of 207 Introduction Managing data in layers Task: Save a workspace Saving workspace settings You can save all the data, layers, and settings in a Surpac Work Area (SWA) file. Open bdy100.str in Graphics. Select gold for the Attribute to colour by. You can also create a new layer using the New button on the Layer pane. Click Paste. The file map and pit.str contains all data from pit1.str and all data from map1.str. Click and drag to create a box around all of the segments. download link Download Gemcom. GEMS 6.5 Download Gemcom. GEMS 6.5 New Crack file password link Copyright © 2013 Dassault Systèmes GEOVIA Inc. Task: Transform data to a different coordinate system You will transform pit1.str into the same coordinate system as pit2.str using 2D transformation. In the Navigator, right click top_cut.str, and select Edit. The plane corridor is now 100 units wide. Right-click in Graphics and select Point. Open lev1665.str in Graphics. Surpac™ 6.6 Page 144 of 207 Introduction Triangulated surfaces Task: View a solid model Viewing a solid model A 3DM, or solid, is a closed shape that represents a closed structure. Surpac™ 6.6 Page 40 of 207 Introduction Strings Task: Find support office contact details Strings A string file is the most common file format used to store information in Surpac. Click the icon to view the data in the XZ plane. The name of the work directory is displayed in the title bar of the Surpac window. On the Select tool drop-down, choose Select Point/Triangle. Surpac™ 6.6 Page 137 of 207 Introduction Triangulated surfaces Task: Create a DTM — file-based method 4. Task: Saving your customisations to a profile If you are an experienced Surpac user, you might want to create your own profile to get faster access to the toolbars, menus, and commands that you need for your work. This time ensure that the Strings to act as break lines check box is selected. String 2 Segment 1 is now Anti-clockwise String 2 Segment 3 is now Anti-clockwise Surpac™ 6.6 Page 80 of 207 Introduction Viewing and saving data Task: Use select mode to break, join, and renumber segments Task: Use select mode to break, join, and renumber segments With select mode, you can select either points or segments. This mode allows you to perform many string editing tasks quickly. 7. In your web browser, type . Move it forward, that is in a clockwise direction, or backward, that is in an anticlockwise direction. By using toolbars, you can access commonly used functions directly without having to search through the menus. Task: Loading a plane from the Planes panel 1. Only the block faces are displayed. All three coordinates in the Status bar change as you move the string. Open ore_solid1.dtm. This direction is important when calculating areas and volumes. Click and drag the mouse to rotate the data and view it from different angles. A copy of the original icon is created: 4. Surpac™ 6.6 Page 73 of 207 Introduction Viewing and saving data Task: Save a file Saving data You can save a file to a text or binary format. The view in Graphics is perpendicular to this plane. Select the Accept these adjustments check box, and click Apply. The terms form and dialog box mean the same thing. You can also use an option on the Open File form to replace data in a layer. Note: It is not necessary to display point numbers. Click the Reset graphics icon . Surpac™ 6.6 Page 95 of 207 Introduction Viewing and saving data Task: Move data in three dimensions 4. Right-click in Graphics, and select Select Segment. Choose File > Save as. When the plot border is positioned where you want it, Press F2. Hold the CTRL key, and select several of the surface design commands as shown. Note: To see all of the steps performed in this task, run 05h_clip_ore_blocks.tcl. Task: Create a simple pit design 1. Surpac™ 6.6 Page 140 of 207 Introduction Triangulated surfaces Task: Create a boundary string - file-based method Creating a boundary string between two DTM surfaces You will now create a boundary string at the location where a pit intersects the topography. Note: To modify the properties for every plane in the group in one action, right-click on the plane group and choose Properties. (Gemcom) All rights reserved. You can change them to suit your needs. With styles files, you can specify many attributes, such as line colour, marker size, and drawing method (lines, markers, attributes, values). Hold the CTRL key, and select the Pit Design, Expand segment, and Expand string folders. Surpac™ 6.6 Page 51 of 207 Introduction Planes Task: Saving a plane The Planes panel is displayed. Location Any combination of characters and numbers Required ID Numbers Only Optional Extension Always .str Required Here are some examples of file names: File name Location ID Extension Input pit_bench105.str bench 2007design.str 2007design2.str 2007design 2 .str grade control 135.str dchomp2 50.str dchomp2 50 .str level-300.str level -300 .str 105 .str .str Spaces in file names are not recommended. 2D transformations You can use 2D transformations to transform data from one coordinate system to another. To review licence details, or type a new token number: a. Task: Open a file from the Navigator 1. Outersection Determining the material which might remain after an excavation is completed, for example the excavation of an open pit. Click MenuBar 1. For example: CTRL+Z means hold the CTRL key down, then press Z. Surpac™ 6.6 Page 187 of 207 Introduction Advanced interface operations Task: Run two functions from the Function Chooser The Open File form and its components is a typical form. You can find out which plane is active in Graphics by looking at the Status bar or the Planes panel. Click Apply to restore to the default profile. Surpac™ 6.6 Page 205 of 207 Introduction More Surpac functions Task: Produce a plot of a pit using autoplot The plot is displayed in the plot preview window. All strings are at the same elevation. Each file type is represented by a unique icon in the Navigator. If the format becomes corrupt, Surpac may not work correctly when using the file. The icon will appear with the new name. From the menu, select Form Help A window with help about the function Open file is displayed. 1 The Z coordinates of the new system are 750 meters below the Z value of the existing system. 36. Surpac™ 6.6 Page 56 of 207 Introduction Planes Task: Viewing and changing plane properties Notice that the sequence number for the plan is 400, and that the plane is the fourth in the group. 4. Click the Markers cell, select Properties and then select the marker type. Next, you will display only those blocks which have a gold value greater than zero, using a “constraint”. Right-click in the empty space at the top of the Surpac window. Note: This time the Strings to act as break lines check box is not selected. Open ore1.dtm in Graphics. String ==> Object Segment ==> Trisolation Point ==> Triangle When you define an object, you explicitly assign it both an object number and a trisolation number. Click string 1, as shown. This is a common approach used when data on a cross section has been digitised from a tablet.

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