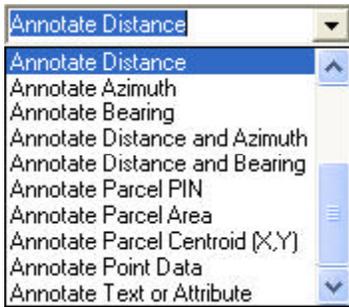
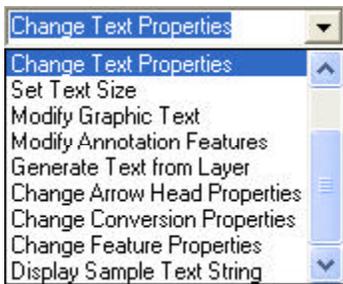


CEDRA-AVcad-Menus Toolbar - Comprised of 4 Drop-down Lists



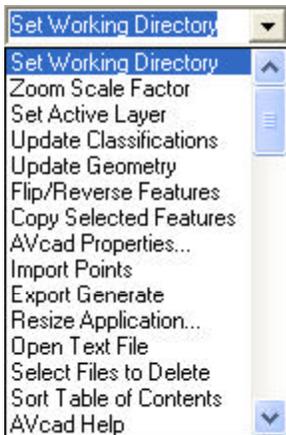
AVcad Annotation Commands

- Label a line with its length
- Label a line with its azimuth
- Label a line with its bearing
- Label a line with its length and azimuth
- Label a line with its length and bearing
- Label a polygon with its ID number
- Label a polygon with its area
- Label a polygon with its centroid point
- Label a point with its data
- Label a feature with User Text or Attribute



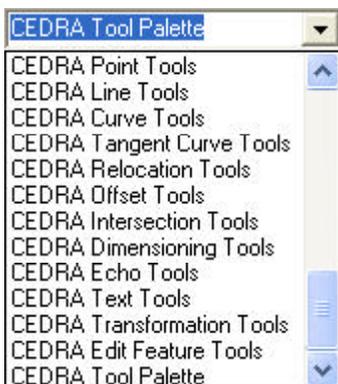
Text Properties Commands

- Change text properties
- Set text size to that of selected text
- Modify native ArcMap graphic text
- Modify annotation features
- Generate text from a table
- Set arrowhead parameters
- Change polygon conversion properties
- Change global feature properties
- Display a sample text label



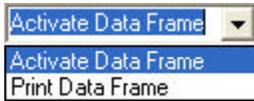
CEDRA Commands

- Set the current working directory
- Zoom in/out of current view
- Set the active layer
- Update the layer classifications
- Update the geometric attributes
- Reverse the direction of polylines
- Copy selected features
- Set AVcad properties (see Figure 2-2)
- Import Points
- Create an ArcInfo Generate file
- Resize the application window
- Open a text file for viewing
- Select files to be deleted from the disk
- Sort or Rearrange layers in the TOC
- AVcad on-line help



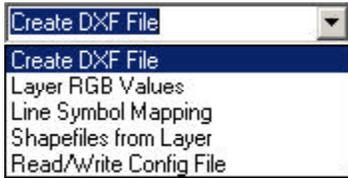
CEDRA Geometry Toolbars

- Display the:
- CEDRA-Point-Tools toolbar
- CEDRA-Line-Tools toolbar
- CEDRA-Curve-Tools toolbar
- CEDRA-TangentCurve-Tools toolbar
- CEDRA-Relocation-Tools toolbar
- CEDRA-Offset-Tools toolbar
- CEDRA-Intersection-Tools toolbar
- CEDRA-Dimensioning-Tools toolbar
- CEDRA-Echo-Tools toolbar
- CEDRA-Text-Tools toolbar
- CEDRA-Transformation-Tools toolbar
- CEDRA-EditFeature-Tools toolbar
- CEDRA-Point-Tools toolbar



Activate a data frame
Print the active data frame

CEDRA-DataFrame-Tools



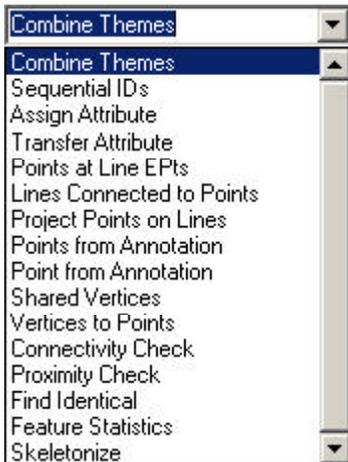
Create a DXF file of all visible layers
Get the RGB values for features from active layer
Define, Export, Import Line Symbol Mappings
Decompose a layer into layers
Read/Write the Create a DXF file Configuration File

CEDRA-ArcMap2DXF-Tools



Create points at polygon vertices
Create points at the centroids of polygons
Snap line and polygon vertices to points
Connect certain points with lines
Union and buffer selected points
Split Polygons using features in another layer
Split Polygons into Equal Area Parts
Find the polygons that overlap a polygon
Create point at center or inside a polygon
Convert line segments in a polygon/polyline to a curve
Find duplicate features in one or two layers
Interpolate an elevation from a TIN
Interpolate an elevation from contour lines
Interpolate an elevation from 3D polygon features
Interpolate an elevation from 3D polyline features
Extract a profile from a TIN along a polyline
Convert 2D Polylines to 3D using a TIN
Compute Footage Values for point features
Create points given footage values and polyline/polygon
Create polyline/polygon vertices from selected points
Convert polyline features into polygon features
Convert polyline features into 2 Point Line features

CEDRA-Polygon-Tools



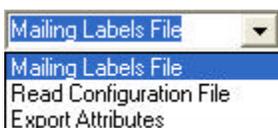
Combine similar type layers into one layer
Generate Sequential Identification Strings
Assign an attribute value to many features
Transfer an attribute from one layer to another
Find points at line ends and assign attributes to the line
Find lines close to point features and assign an attribute
Project selected points on lines and assign an attribute
Create point features from Annotation features
Create point feature from selected Annotation features
Force vertices of connected lines to be identical
Create points at polyline/polygon vertices
Check connectivity of point and line features
Find features which are within a distance of features
Find Identical Features based upon 1 or 2 common attributes
Display Feature Data (Parts, Vertices, Segment Length)
Skeletonize a network

CEDRA-Skeletonization-Tools



Select section(s) by attribute
Create aliquot parts reading a coded file
Create an aliquot by entering a code
Divide a quadrilateral into aliquots
Create aliquot parts reading a dBase table
Extract Section-Township-Range values from a string

CEDRA-Aliquot-Tools



Create a DXF file of all visible layers
Get the RGB values for a DXF file
Export layer/table attributes to a comma delineated text file

CEDRA-MailingLabels-Menus

CEDRA-Point-Tools

-  PICK
Points by picking
-  Points by entering coordinates
-  Points with direction and distance from a base point
-  Points with plus & offset from (a) a point with 2-pick direction, or (b) line/curve endpoint (direction towards other endpoint)
-  Points by picking a point and projecting it on a line or curve
-  Equidistant points or lines between two picks
-  Equidistant points along a group of lines and/or curves
-  The center of a circle or arc
-  Create Points using Data in a Table

CEDRA-Line-Tools

-  Lines between two picks
-  Discrete lines, polylines or polygons by making successive picks
-  Lines with direction and distance from a base point
-  Normal/radial lines at uniform spacing along a group of lines/curves
-  Vertical line between two picks
-  Horizontal line between two picks
-  Lines tangent to a curve at a pick projected on the curve
-  Line with point pick and slope

CEDRA-Curve-Tools

-  A circle passing through three picks
-  An arc passing through three picks
-  Circle by picking its center, & entering radius or picking radius endpoint
-  An arc with center, radius and angle
-  An arc with center, radius and arc length
-  An arc with center, radius and endpoint
-  A circle of given radius and passing through 2 picks

CEDRA-TangentCurve-Tools

-  Tangent arc given it's PC, radius and arc length
-  Tangent arc given it's PC, radius and central angle
-  Tangent arc given it's PC, radius and chord length
-  Non-Tangent arc given it's PC, radius, chord direction and length
-  An arc of known radius tangent to two lines
-  An arc tangent to two lines and passing through a pick
-  Arc tangent to a line with a given end point

CEDRA-Relocation-Tools

-  Move a point or line/curve endpoint to a new pick location
-  Move a curve's control point to new pick location (center moves the entire curve)
-  Move the endpoint of a line/curve a distance along the course of the line/curve
-  Move the endpoints of group of lines to each one's intersection with another line/curve
-  Cutout a portion of a line or curve
-  Break a line or curve
-  Move features to a point of projection
-  De-weed and/or Smooth polylines

CEDRA-Offset-Tools

-  Lines parallel to an existing line at a uniform offset
-  Curves offset from exist. curve; (+) offset increases, (-) decreases radius.
-  Offset element strings at a given offset (create polyline/polygon w/ auto-trace algorithm)
-  Point offset from two lines
-  **Line offset from two existing line features**

CEDRA-EditFeature-Tools

-  EF Edit the database attributes of a Feature
-  QA Quick Attribute Assignment
-  TA Transfer Feature Attributes
-  CF Copy Selected Features

The tools in red are not included in the CEDRA Tool Palette

CEDRA-Intersection-Tools

-  Two lines by picking each one
-  A curve with a line picking each one (get both intersections)
-  A curve with a curve picking each one (get both intersections)
-  Trim or Extend two features to their intersection with option of introducing a fillet

CEDRA-Dimension-Tools

-  A leader dimension with optional text
-  A normal dimension with optional text
-  A vertical dimension with optional text
-  A horizontal dimension with optional text
-  Generate metes and bounds type of dimensions

CEDRA-Text-Tools

-  Create a text string (annotation)
-  Center a text string (annotation) about 2 picks
-  Center a text string (annotation) about a line feature
-  Explicitly set the angle for a text string (annotation)
-  Edit an existing text string (annotation)
-  Convert a text string (annotation) into a curved text string
-  Align existing annotation text strings
-  Annotate a Polyline's Length
-  Equally Space Annotation Features
-  Create Annotation at Polyline Vertices
-  Combine Annotations into 1 Annotation
-  Translate Annotation Features

CEDRA-Polygon-Tools-2 Toolbar

-  Change Feature's Shape
-  Change Feature's Course
-  Change Selected Feature(s)
-  Change Coordinates
-  Grid a Quadrilateral
-  Create polygons from the sectors of concentric circles
-  Perform a Topological Operation

CEDRA-Echo-Tools

-  The direction and distance between 2 picks
-  The geometric data of an element
-  The angle formed by 3 picks and the direction & distance of each leg
-  The area and perimeter of a string of contiguous elements
-  The Plus and Offset of a Point feature from a Line feature

CEDRA-Transform-Tools

-  Move, rotate and/or scale selected features and/or graphic elements
-  Move, rotate and/or scale selected features about the X and Y axes
-  Pick Baseline Point 1
-  Pick Baseline Point 2
-  Pick Baseline Point 3
-  Pick New Baseline Point 1
-  Pick New Baseline Point 2
-  Pick New Baseline Point 3
-  Rotate, Translate and Scale
-  Translate Selected Features

CEDRA-Transform2-Tools

-  Define Base Points
-  Define Control Points
-  Define Base and Control Points
-  Perform T4 Transformation
-  Delete Points

The tools in red are not included in the CEDRA Tool Palette

CEDRA-DataEditor-Tools Toolbar

-  The Edit Feature Attributes Tool
-  The Reload the Theme Attribute Data File Tool
-  The Delete Selected Features Tool
-  The Set Working Directory Tool
-  The Map Tips Tool
-  The Break and Add Line Tool
-  The Break and Add Point Tool
-  The Edit Feature Tables Tool
-  The Assign Fixed Attributes Tool
-  The Check Attributes Tool

CEDRA-Call-out-Tools Bar

-  Create text with a balloon (bubble) and a leader
-  Create text with a balloon (bubble) and no leader
-  Place a balloon (bubble) about an ArcMap graphic

CEDRA-DataFrame-Tools-4 Toolbar

-  Save Layout
-  Recall Layout
-  Delete layout

CEDRA-Deed-Tools Toolbar

-  The Create Parcel tool to introduce and adjust a parcel or traverse
-  The Edit Parcel tool to edit a previously created parcel or traverse
-  The Split Parcel tool to split a polygon into two polygons
-  The Unite Parcel tool to unite polygons into one polygon with one or many parts
-  The Combine Parcel tool to combine polygons into one polygon with one or many parts
-  Perform a Topological Clean

CEDRA-DataFrame-Tools-2 Toolbar

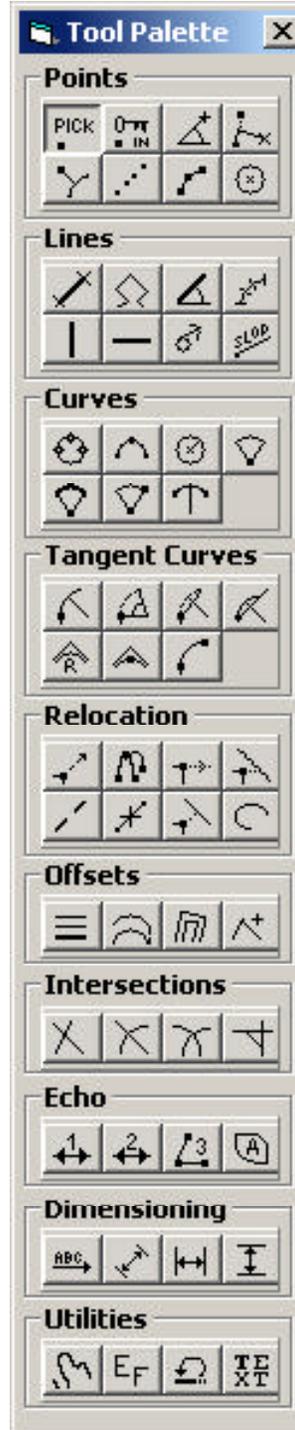
-  Find features from active layer
-  Find features within a distance
-  Create a hyperlink
-  Delete a hyperlink
-  Process a feature's hyperlink

CEDRA-DataFrame-Tools-3 Toolbar

-  Define Point
-  Hide/Show Mini Tool Palette

CEDRA-ArcView3-Tools Toolbar

-  Identify feature from active layers
-  Select feature(s) from active layers
-  Clear selected set for active layers
-  Zoom to Extent of all layers
-  Zoom to Extent of all active layers
-  Zoom to Selected in active layers
-  Make all layers visible
-  Make all layers invisible
-  Delete Selected Features
-  Delete vertices in a Polyline or Polygon
-  Open Attribute for active layer(s)
-  Switch Selection for active layer(s)
-  Set the active layer



**CEDRA
Tool Palette**