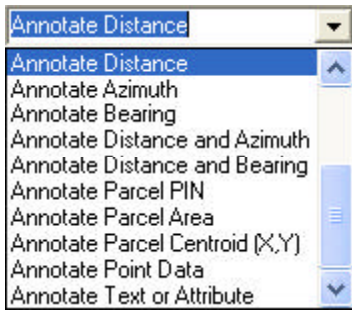
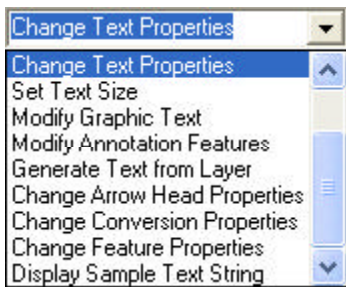


CEDRA-AVcad-Menus Toolbar - Comprised of 4 Drop-down Lists



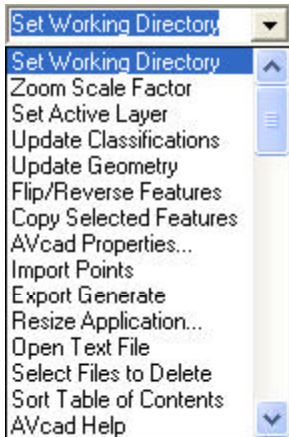
AVcad Annotation Commands

- 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



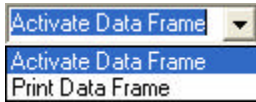
CEDRA Commands

- 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



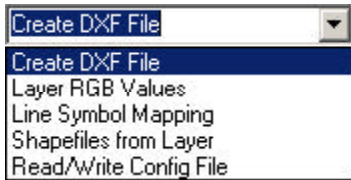
CEDRA Geometry Toolbars

- 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



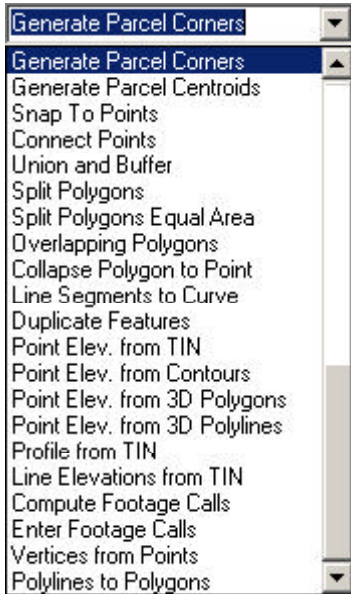
Activate a data frame
Print the active data frame

CEDRA-DataFrame-Tools



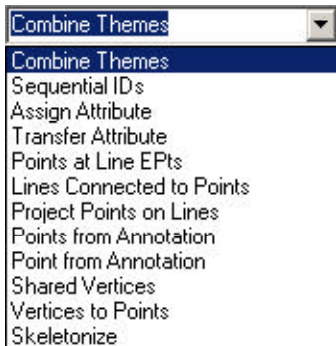
Create a DXF file of all visible layers
Get the RGB values foFind features from active layer
Define, Export, Import Line Symbol Mappings
Decompose a layer into layers
Read/Write the Create a DXF file Configuration File

CEDRA-ArcMap2DXF-Tools



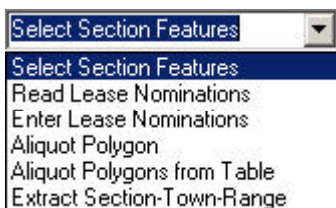
Create points at polygon vertices
Create points at the centroids of polygons
Snap line and polygon vertices to points
Connect certain points with lines
Union and buffer selected points
Split Polygons using features in another layer
Split Polygons into Equal Area Parts
Find the polygons that overlap a 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

CEDRA-Polygon-Tools



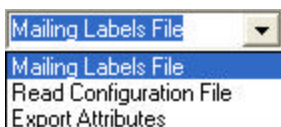
Combine similar type layers into one layer
Generate Sequential Identification Strings
Assign an attribute value to many features
Transfer an attribute from one layer to another
Find points at line ends and assign attributes to the line
Find lines close to point features and assign an attribute
Project 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
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
-  0-11
Points by entering coordinates
-  \nearrow
Points with direction and distance from a base point
-  \oplus
Points with plus & offset from (a) a point with 2-pick direction, or (b) line/curve endpoint (direction towards other endpoint)
-  \perp
Points by picking a point and projecting it on a line or curve
-  \dots
Equidistant points or lines between two picks
-  \curvearrowright
Equidistant points along a group of lines and/or curves
-  \odot
The center of a circle or arc
- 

Create Points using Data in a Table








CEDRA-Line-Tools

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









CEDRA-Curve-Tools

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






CEDRA-TangentCurve-Tools

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



CEDRA-Relocation-Tools

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

CEDRA-Offset-Tools

-  $||$
Lines parallel to an existing line at a uniform offset
-  \frown
Curves offset from exist. curve; (+) offset increases, (-) decreases radius.
-  \frown
Offset element strings at a given offset (create polyline/polygon w/ auto-trace algorithm)
-  \wedge
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

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








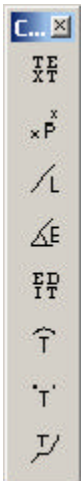
CEDRA-Intersection-Tools

-  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








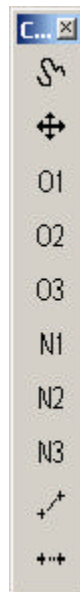
CEDRA-Polygon-Tools-2 Toolbar

-  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













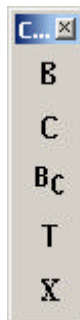
CEDRA-Echo-Tools

-  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



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-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-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



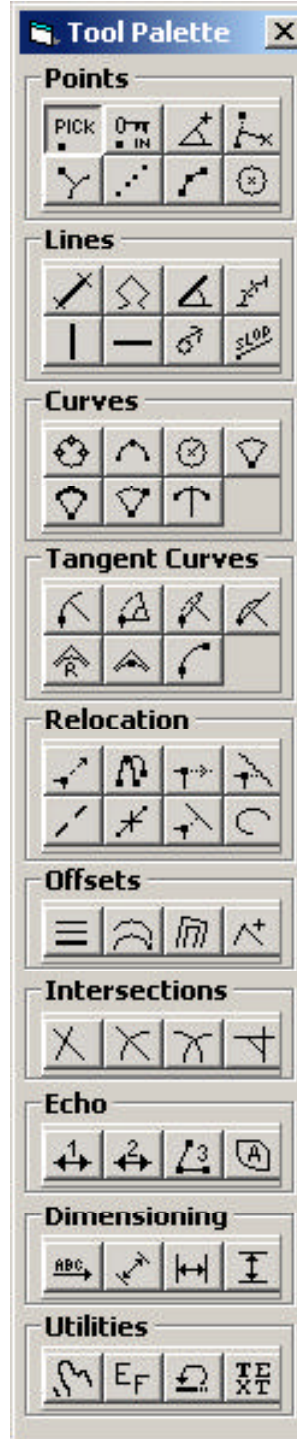
CEDRA-DataFrame-Tools-3 Toolbar

- Define Point
- Hide/Show Mini Tool Palette



CEDRA-DataFrame-Tools-4 Toolbar

- Save Layout
- Recall Layout
- Delete layout



**CEDRA
Tool Palette**