



“Super-charging BricsCAD and AutoCAD with productivity boosting tools since 1999”

## Polyline Tools

### Join

GT_3DJ	Join 3D Polylines
GT_PLJOIN	Automated Join - 2D polylines

### Change 2d3d2d

GT_CH2D3D	2D-to-3D
GT_CH3D2D	3D-to-2D

### Vertex Management

GT_FIXCLOSED	Add / Remove redundant closing vertex in polylines
GT_DELSVP	Delete single vertex polylines

### Optimization/Cleanup

GT_DENSIFY	Densify vertices
GT_DISTANGWEED	Weed (remove) vertices based on distance and angle
GT_REM_LINVERTS	Weed (remove) collinear vertices from polyline

### Identify

GT_INTERSECT	Mark intersection points along lines, polylines, arcs..
GT_JUNCTION	Mark junction points in a network of linear objects
GT_PL_0	Identify Zero elevation Vertex
GT_VXDROP	Highlight elevation differences in polylines
GT_3DINT	Find 3d intersections

### Process

GT_PL_INTER	Assign Interpolated Z values to vertices
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GT_MERGEPLY	Merge adjacent closed polylines
GT_GT_INOUTOFFSET	Offset closed polylines INwards/OUTwards
GT_POLYINSVX	Polyline 'Insert Vertex' Tool

### **Inquiry & Statistics**

GT_PL_STAT	Compute detailed polyline statistics
GT_LAYERAREA	Compute summed polyline areas from selected layers
GT_LENGTH	Compute lengths
GT_BULGE	Display info. about polyline bulge (arc segments)

### **More editing**

GT_GT_MPEDIT	Multiple Pedit
GT_CHW	Change Widths
GT_XP_WPL	Explode Polylines with width

### **Direction Control**

GT_FLIP	Flip (Reverse) direction
GT_PLARCMIRROR	Flip (mirror) arc segments of polylines
GT_PL_DIR	Find out direction of polyline vertices

### **Create/Edit**

GT_AUTOPAN	Draw 2d/3d polylines with auto-edge panning
GT_LINPOLY	Draw linear polylines from arced polylines
GT_XV	Express Pedit
GT_SEGLENSET	Specify segment lengths in polylines

### **Presentation**

GT_PL_PLACE	Place Points/Blocks along vertices
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### **Fillet**

GT_FILLETPLY	Enhanced fillet command
GT_MFILLET	Fillet multiple polylines

### **Others**

GT_XPSPL	Explode Splined
GT_FLOW_LT	Control polyline linetypes
GT_ZPOLY	Zoom to Polyline
GT_FIXUCS	Fix line/polylines with different UCS

### **Conversion**

GT_PLARC2PL	Convert Arc Polylines to linear segment polyline
GT_PL23DFACE	Convert polylines to 3dface
GT_BLKSH2P	Convert Blocks/Shapes/Text/Circle to Points

GT_P2BLKSHP	Convert Points/Text/Circles to Blocks/Shapes
GT_SPL2PL	Convert Splines to polylines
GT_0LEN2PNT	Convert 0 Lengths to POINTs
GT_3DF2PL	3DFaces to polylines
GT_PFACE2PL	Polyface mesh to polylines
GT_LINE2PL	Convert lines and arcs to polylines
GT_SCALE_Z	Scale Z values
GT_ASN_PROP	Assign Properties
GT_ASS_EL	Automatically Assign contour elevations
GT_ASS_EL_TEXT	Assign contour elevations from text objects
GT_FLATTEN	Flatten - Convert to 0.0 elevation
GT_ATT2XD	Attributes to Xdata
GT_CH_H2L	Heavy-Weight to Light-Weight
GT_CH_L2H	Light-Weight to Heavy-Weight

## Export

GT_IMPEX	Import/Export points and lines
GT_VIEWLINKED	View handles-linked ASCII data
GT_READDEM	Import(read) ARC ASCII DEM files
GT_WRITEDEM	Export (write) ARC ASCII DEM files
GT_MULTEXPORT	Multiple drawing export in various formats
GT_NIKON2DWG	Import NIKON survey raw data
GT_IMPORTSDR	Import Sokkia SDR raw data format
GT_EXTRACTGMLFEATURES	Extract GML features from master-file
GT_READGMLFEATURES	Import single GML feature from file

## Drawing Cleanup

GT_ZTREND	Analyze and fix polyline elevation trends
GT_OVERLAP	Remove overlapping segments from a lines selection
GT_DELDUP	Delete Duplicate Objects
GT_NODELINESNAP	Linear and Node Snap (MAGNET)
GT_KINK	Identify intersecting segments (kinks) in polylines
GT_BREAKX	Break crossing objects at ends
GT_INTEX	Lineworks Intersections Processor
GT_DANGLECHECK	Detect free ends (dangles) of lines,polylines and arcs
GT_HSQUARE	Create right angle corners
GT_POINTWEED	Weed points based on spacing
GT_ENDELEVCHECK	Check for coincident (XY) endpoints with varying Z
GT_SET_Z_PL	Set out-of-range elevation values to nearest valid elevation values
GT_PLANARPOLY	Make polylines/3dfaces planar

## Draw

GT_EASY3DPOINT	Easy 3dpoint
GT_EMBHATCH	Draw Embankment hatch slopes pattern
GT_VEGLINE	Draw vegetation cover symbols
GT_SORTEDPOLY	Draw a polyline by joining points in sorted order

## Build

GT_ROWMAKER	Make Right-of-Way/Pavements/Ramps
GT_CENTLINE	Draw Center-Lines from road R-O-W
GT_3DOFFSET	Offset 3d polylines
GT_CREATECENT	Create centroid marks inside closed polygons
GT_MVMEASURE	Multi-Variable Measure
GT_JNE	Join nearest ends of lines, polylines
GT_EDGEBUILDER	Build common edges along closed, adjacent polygons
GT_PTINTERMANUAL	Interpolate point elevation from neighboring polylines - manual pick
GT_PTINTERAUTOMATIC	Interpolate point elevation from neighboring polylines - automatic
GT_CCPOLY	Create closed polylines from a mass of networked polylines
GT_CONTOUROFFSET	Create mathematical offsets between two contour polylines
GT_NETNODES	Place points along linear network
GT_DRAPEPOLY	Drape a 3D polyline across a set of intersecting linear objects
GT_POLYAREASPLIT	Split a polygon into smaller ones based on area

## Annotation

GT_VXLABEL	Label polyline vertices
GT_PL_DATAABL	Label polylines with attached data
GT_SEGLABEL	Label polyline segments
GT_CONTLABEL	Label contour polylines
GT_IDXYZ	Label points
GT_ANNOTPOINTS	Annotate points, based on layer names
GT_LENTEXT	Create/update length annotation
GT_CREATEANNOT	Create annotations at intersections

## Blocks

GT_ATTEDIT	Global Attribute Editor
GT_ZOOMTXT	Search and replace text/attributes
GT_ATTTEXT	Extract Block attributes to file
GT_ATTXFER	Transfer Attributes between blocks
GT_TXT2ATT	Transfer Text strings to Block attributes
GT_PROP2ATT	Transfer AutoCAD properties to Blocks Attributes
GT_TAGREN	Rename block attribute tags, prompts and defaults
GT_TAGDEL	Delete block attribute tags from block definition
GT_UPDATEPOINTBLK	Update 'Coordinates Block' attributes

## AutoCAD Map Tools

## Data Convert/Transfer

GT_XFER_OD_XD	Transfer Object Data / Xdata between two objects
GT_OD2ATT	Transfer Object Table Data to Block Attributes
GT_ATT2OD	Transfer Block Attributes to Object Table Data
GT_DB2OD	Transfer database linked data to object data
GT_PROP2OD	Transfer AutoCAD properties to Object Data
GT_OD2XD	Convert Object Table Data to Xdata

## Export

GT_OD_EXTRACT	Export Object Table Data to ASCII files
GT_OD_STRUEXT	Export Object Table Field Structure to ASCII files

## Create

GT_AUTOINCROD	Create auto-incrementing object table data
GT_OD_XD_LABEL	Create text labels from Object data / extended entity data

## Object Data

GT_OD_EDIT	Global Object Data Editor
GT_GT_EASYOD	Multiple-Choice Object data editor
GT_GT_EASYOD_SETUP	Multiple-Choice Object data editor Setup
GT_MERGETBL	Merge two object tables
GT_REM_DUP_RECS	Remove duplicate object data records within objects
GT_REN_OD_FLDS	Rename Object Data Fields
GT_TXT2OD	Transfer text strings to Object Data
GT_OD_LIST	List Object Data
GT_OD_SEARCH	Search and replace Object table data
GT_NODATA	Check for no Xdata / Object Data
GT_OD2ELEV	Assign elevations from object data
GT_AMAPBREAK	Break object but retain object data in both broken parts
GT_COPYODTABDEF	Copy Object Table definition
GT_DEFATTOD	Define Object Table from block attributes
GT_DEFDBOD	Define object table from linked database table
GT_DEFODATT	Define Block (with attributes) from object table data

## Bricscad / plain AutoCAD compatibility tools

GT_BC_OD2XD	Convert Object Table Data to Xdata (for BricsCAD/plain ACAD use)
GT_BC_OEDIT	Edit object data from AutoCAD Map
GT_BC_XD2OD	Transfer Xdata to Object data (for use after Bricscad / plain AutoCAD editing only)

## AutoCAD Map

GT_ADEDEFDATA	Define object data
GT_ADEATTACHDATA	Attach/Detach object data
GT_ADEEDITDATA	Edit object data

GT_QUERYPROC	Format text labels queried with 'Alter properties'
GT_TOPOSELECT	Select Topology objects graphically

## Extended Entity Data

GT_REMXD	Remove Xdata
GT_XD_SEARCH	Search and replace extended entity data
GT_SHOWXD	Display extended entity data from picked object
GT_XD_EXTRACT	Extract extended entity data to ASCII files

## Civil Tools

GT_TRIANGULATE	Create TIN (Delauney triangulation) and Voronoi polygons
GT_CONTOURBUILDER	Create contours from TIN model
GT_CHAINAGE	Annotate chainages along a route
GT_GT_PROFILE	Draw cross-sectional profile from 3D Polyline
GT_ADJUSTLEVELS	Adjust cross-section elevations
GT_DRAWGRADE	Draw Graded polylines
GT_TRAVADJ	Perform traverse error adjustment
GT_CROSSSECT	Multiple Cross Section Tools
GT_VOLUME	Perform Volume Cut/Fill calculations
GT_SHEETINS	Create and Place Map Sheet Index Block
GT_ANNGRID	Create Map Grid
GT_BEARINGDIST	Bearing and Distance
GT_BRGROUND	Round off bearings
GT_SLOPEDISPLAY	Color-coded Slope Display (of TIN faces)
GT_FINDSLOPE	Find slope of a single TIN face
GT_VORONOI	Draw Voronoi polygons

## Civil Tools -> Road Design

GT_CREATECARRIAGEWAY	Create road carriageway in 3d
GT_DRAWHCURVES	Draw horizontal alignment curves
GT_DRAWVCURVES	Draw vertical alignment curves

## Geographic Tools

GT_COORDTRAN	Mapping coordinates transformation tools
GT_KML2DWG	Import Google Earth KML file
GT_DWG2KML	Export Google Earth KML file – Interactive version
GT_DWG2KML_BATCH1	Export Google Earth KML file – Single feature batch version
GT_DWG2KML_BATCHM	Export Google Earth KML file – Multiple feature batch version
GT_GEIMPORTIMAGE	Import geo-referenced images from Google Earth
GT_INSPHOTO	Insert a geo tagged photo

## Miscellaneous

### Images

GT_GEO_INS	Insert a geo-referenced image
GT_IMAGESCAN	Scan selected image files and build image boundary list
GT_IMAGESEARCH	Insert geo-referenced image corresponding to selected AOI
GT_MINEX2DWG	Import (read) a MINEX coal reserves data file
GT_ROUGHEN	Roughen a Line
GT_SURFAREA	Compute Surface Area of 3DFACES
GT_XP_RETDAT	Explode objects - Retain Object Table and extended entity data
GT_HATCHAREA	Report on areas covered by HATCH objects
GT_CONTBREAK	Break(Split) objects along a polyline
GT_GEO	Enter geographical coordinates-Latitude,Longitude,Height
GT_CONTCCLASS	Classify Elevation Contours
GT_DELETELAYOUTS	Delete paper-space layouts
GT_CONTDIST	Contour Spacing Distance Tool

### Selection

GT_PLFILTER	Polylines based on properties
GT_3DFFILTER	3DFaces based on properties
GT_ESELECT	Enhanced Entity Selector
GT_MAKESEL	Build Selection Set
GT_FINDZRNNG	Find objects in selected Z range
GT_SL	Select Current Layer
GT_SS	Select Current Style
GT_LASTSEL	Put last GeoTools selection in "previous" sel.set

### Inquiry

GT_CGRAV	Compute Center of Gravity
GT_DWG_STAT	Display Drawing Statistics
GT_DXY	Enhanced DIST command

### Geological/Mining (additionally priced module)

GEOL_BOREHOLELOGGER	Import bore-hole data
GEOL_TUNNELMAKER	Create a 3D Tunnel Model
GEOL_DRAWHEAVE	Draw Heave
GEOL_FAULTSHIFT	Fault Shift
GEOL_3POINT	Determine Strike & Dip [3-Point problem solution]
GEOL_BOREHOLESTRATA	Draw bore-hole cross-section data
GEOL_MININGSYMBOLS	Mining Symbols

### More Options

GT_CHECKUPDATES	Check for GeoTools updates
GT_DEBUGINFO	Display debug info about the computer and licensing
GT_CMDLIST	List GeoTools/CADPower commands
GT_CMDSEARCH	Search GeoTools/CADPower commands
GT_CCMDHELP	Display Specific Command Help
GT_LASTCMDHELP	Display help for last command