



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

Polyline Tools

Join

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

Change 2d3d2d

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

Vertex Management

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

Optimization/Cleanup

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

Identify

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|--------------|---|
| 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

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|-------------|--|
| 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

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|------------------|--|
| 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) |
| GT_FINDSLOPELINE | Find slope between two points |

More editing

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|--------------|------------------------------|
| GT_GT_MPEDIT | Multiple Pedit |
| GT_CHW | Change Widths |
| GT_XP_WPL | Explode Polylines with width |

Direction Control

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

Create/Edit

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|--------------|---|
| 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

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|-------------|------------------------------------|
| GT_PL_PLACE | Place Points/Blocks along vertices |
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Fillet

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|--------------|---------------------------|
| GT_FILLETPLY | Enhanced fillet command |
| GT_MFILLET | Fillet multiple polylines |

Others

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

Conversion

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|--------------|--|
| GT_PLARC2PL | Convert Arc Polylines to linear segment polyline |
| GT_PL23DFACE | Convert polylines to 3dface |

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|----------------|--|
| GT_BLKSH2P | Convert Blocks/Shapes/Text/Circle to Points |
| GT_P2BLKSH | 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

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|-----------------------|--|
| 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

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|-----------------|---|
| 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 (by distances) |
| GT_3DOFFSETSLOPE | Offset 3d polylines by slope/elevation |
| GT_3DOFFSETSECTION | Offset 3d polylines along section |
| 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 |

Build - Object Data Tools

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|----------------|---|
| GT_DATAMAN | Object Data Manager: Create, Edit, Import, Export Data Tables |
| GT_EDITDATA | Edit Object Data |
| GT_ATTACHATA | Attach Object Data |
| GT_DETACHDATA | Detach Object Data |
| GT_QUERYDATA | Query Object Data |
| GT_COPYDATA | Copy Object Data |
| GT_LABELDATA | Label GeoTools Object Data |
| GT_CPOD_EXPORT | Export Object Data |
| GT_CPOD_IMPORT | Import Object Data |

Annotation

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|----------------|---------------------------------------|
| GT_VXLABEL | Label polyline vertices |
| GT_PL_DATAALBL | 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_STRUCEXT 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

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|-------------|---|
| 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

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|-------------|---|
| 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

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|------------------|--|
| 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

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|---------------|---|
| 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

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|--------------------|--|
| 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_MAPSHEETMAKER | Create Map Sheets from (around) Center-Lines) |
| GT_MAPSHEETTRIMMER | (Auto)Trim outside map sheet |
| 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_FINDSLOPELINE | Find slope of line between two 3d points |
| GT_VORONOI | Draw Voronoi polygons |

Civil Tools -> Road Design

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

Geographic Tools

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|-------------------|---|
| 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

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|------------------|--|
| 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

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|--------------|---|
| GT_PLFILTER | Polylines based on properties |
| GT_3DFFILTER | 3DFaces based on properties |
| GT_ESELECT | Enhanced Entity Selector |
| GT_MAKESEL | Build Selection Set |
| GT_FINDZRNG | 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

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|---------------|----------------------------|
| GT_CGRAV | Compute Center of Gravity |
| GT_DWG_STAT | Display Drawing Statistics |
| GT_DXY | Enhanced DIST command |
| GT_ISLANDAREA | Island Area Detection |

Geological/Mining (additionally priced module)

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|----------------------------|---|
| GEOL_BOREHOLELOGGER | Import bore-hole data |
| GEOL_BOREHOLESTRATA | Draw bore-hole cross-section strata |
| GEOL_BOREHOLESECTION | Draw bore hole sections |
| GEOL_BOREHOLEPLANNER | Bore Hole Planner - Across lease area |
| GEOL_BOREHOLEINSERT | Insert bore hole along a section |
| GEOL_BOREHOLETEXTSMALLER | Make bore hole text smaller |
| GEOL_BOREHOLETEXTBIGGER | Make bore hole text bigger |
| GEOL_BOREHOLESECTIONRENAME | Rename a bore-hole section |
| GEOL_BOREHOLES SMALLER | Make bore hole size smaller |
| GEOL_BOREHOLEBIGGER | Make bore hole size bigger |
| GEOL_MAKE3DSECTIONS | Make 3D bore-hole cross-sections |
| GEOL_BOREHOLEEXPORT | CSV Export bore-hole section / points data |
| GEOL_BOREHOLESECTIONDELETE | Delete bore hole sections / points |
| GEOL_RUNNINGPATTERNS | Draw geological patterns |
| GEOL_MINEX2DWG | Import (read) a MINEX coal reserves data file |
| GEOL_LEASEAREAPLANNER | Specify and plan mining lease area 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 |
| GEOL_AREAVOLCALC | Area-Volume Calculation |

More Options

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|-----------------|---|
| 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 |

