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AutoCAD System Variables Listing

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AutoCAD 2000 System Variables

A

ACADLSPASDOC Controls whether AutoCAD loads the acad.lsp file into every drawing or just the first drawing opened in an AutoCAD session

ACADPREFIX Stores the directory path, if any, specified by the ACAD environment variable, with path separators appended if necessary

ACADVER Stores the AutoCAD version number

ACISOUTVER Controls the ACIS version of SAT files created using the

ACISOUTcommand

AFLAGS Sets attribute flags for ATTDEF bit-code

ANGBASE Sets the base angle 0 with respect to the current UCS

ANGDIR Sets the positive angle direction from angle 0 with respect to the current UCS

APBOX Turns the AutoSnap aperture box on or off

APERTURE Sets object snap target height, in pixels

AREA Stores the last area computed by AREA, LIST, or DBLIST

ATTDIA Controls whether -INSERT uses a dialog box for attribute value entry

ATTMODE Controls display of attributes

ATTREQ Determines whether INSERT uses default attribute settings during insertion of blocks

AUDITCTL Controls whether AUDIT creates an audit report (ADT) file

AUNITS Sets units for angles

AUPREC Sets the number of decimal places for angular units

AUTOSNAP Controls AutoSnap marker, tooltip, and magnet

B

BACKZ Stores the back clipping plane offset from the target plane for the current viewport
BINDTYPE Controls how xref names are handled when binding xrefs or editing xrefs in-place
BLIPMODE Controls whether marker blips are visible

C

CDATE Sets calendar date and time
CECOLOR Sets the color of new objects
CELSCALE Sets the current object linetype scaling factor
CELTYPE Sets the linetype of new objects
CELWEIGHT Sets the linewidth of new objects
CHAMFERA Sets the first chamfer distance
CHAMFERB Sets the second chamfer distance
CHAMFERC Sets the chamfer length
CHAMFERD Sets the chamfer angle
CHAMMODE Sets the input method by which AutoCAD creates chamfers

CIRCLERAD Sets the default circle radius
CLAYER Sets the current layer
CMDACTIVE Stores the bit-code that indicates whether an ordinary command, transparent command, script, or dialog box is active
CMDECHO Controls whether AutoCAD echoes prompts and input during the AutoLISP (command) function
CMDNAMES Displays the names of the active and transparent commands
CMLJUST Specifies multiline justification
CMLSCALE Controls the overall width of a multiline

CMLSTYLE Sets the multiline style
COMPASS Controls whether the 3D compass is on or off in the current viewport
COORDS Controls when coordinates are updated on the status line
CPLOTSTYLE Controls the current plot style for new objects
CPROFILE Stores the name of the current profile
CTAB Returns the name of the current (model or layout) tab in the drawing. Provides a means for the user to determine which tab is active

CURSORSIZE Determines the size of the crosshairs as a percentage of the screen size
CVPORT Sets the identification number of the current viewport

D

DATE Stores the current date and time
DBMOD Indicates the drawing modification status using bit-code
DCTCUST Displays the path and file name of the current custom spelling dictionary
DCTMAIN Displays the file name of the current main spelling dictionary
DEFLPLSTYLE Specifies the default plot style for new layers
DEFPLSTYLE Specifies the default plot style for new objects
DELOBJ Controls whether objects used to create other objects are retained or deleted from the drawing database

DEMANDLOAD Specifies if and when AutoCAD demand loads a third-party application if a drawing contains custom objects created in that application
DIASTAT Stores the exit method of the most recently used dialog box

DIMADEC Controls the number of places of precision displayed for angular dimensions

DIMALT Controls the display of alternate units in dimensions

DIMALTD Controls the number of decimal places in alternate units

DIMALTF Controls the multiplier for alternate units

DIMALTRND Determines rounding of alternate units

DIMALTTD Sets the number of decimal places for the tolerance values in the alternate units of a dimension

DIMALTZ Toggles suppression of zeros in tolerance values

DIMALTU Sets the units format for alternate units of all dimension style family members except angular

DIMALTZ Controls the suppression of zeros for alternate unit dimension values

DIMAPOST Specifies a text prefix or suffix (or both) to the alternate dimension measurement for all types of dimensions except angular

DIMASO Controls the associativity of dimension objects

DIMASZ Controls the size of dimension line and leader line arrowheads

DIMATFIT Determines how dimension text and arrows are arranged when space is not sufficient to place both within the extension lines

DIMAUNIT Sets the units format for angular dimensions

DIMAZIN Suppresses zeros for angular dimensions

DIMBLK Sets the arrowhead block displayed at the ends of dimension lines or leader lines

DIMBLK1 Sets the arrowhead for the first end of the dimension line when DIMSAH is on

DIMBLK2 Sets the arrowhead for the second end of the dimension line when DIMSAH is on

DIMCEN Controls drawing of circle or arc center marks and centerlines by DIMCENTER,

DIMDIAMETER, and DIMRADIUS

DIMCLRD Assigns colors to dimension lines, arrowheads, and dimension leader lines

DIMCLRE Assigns colors to dimension extension lines

DIMCLRT Assigns colors to dimension text

DIMDEC Sets the number of decimal places displayed for the primary units of a dimension

DIMDLE Sets the distance the dimension line extends beyond the extension line when oblique strokes are drawn instead of arrowheads

DIMDLI Controls the spacing of dimension lines in baseline dimensions

DIMDSEP Specifies a single character decimal separator to use when creating dimensions whose unit format is decimal

DIMEXE Specifies how far to extend the extension line beyond the dimension line

DIMEXO Specifies how far extension lines are offset from origin points

DIMFIT Obsolete. Replaced by DIMATFIT and DIMTMOVE

DIMFRAC Sets the fraction format when DIMLUNIT is set to 4 or 5

DIMGAP Sets the distance around the dimension text when the dimension line breaks to accommodate dimension text

DIMJUST Controls the horizontal positioning of dimension text

DIMLDRBLK Specifies the arrow type for leaders

DIMLFAC Sets a scale factor for linear dimension measurements

DIMLIM Generates dimension limits as the default text

DIMLUNIT Sets units for all dimension types except Angular

DIMLWD Assigns linewidth to dimension lines

DIMLWE Assigns linewidth to extension lines

DIMPOST Specifies a text prefix or suffix (or both) to the dimension measurement

DIMRND Rounds all dimensioning distances to the specified value
DIMSAH Controls the display of dimension line arrowhead blocks
DIMSCALE Sets the overall scale factor applied to dimensioning variables that specify sizes, distances, or offsets
DIMSD1 Controls suppression of the first dimension line
DIMSD2 Controls suppression of the second dimension line
DIMSE1 Suppresses display of the first extension line
DIMSE2 Suppresses display of the second extension line

DIMSHO Controls redefinition of dimension objects while dragging
DIMSOXD Suppresses drawing of dimension lines outside the extension lines
DIMSTYLE Shows the current dimension style
DIMTAD Controls the vertical position of text in relation to the dimension line
DIMTDEC Sets the number of decimal places to display in tolerance values for the primary units in a dimension
DIMTFAC Sets a scale factor used to calculate the height of text for dimension fractions and tolerances

DIMTIH Controls the position of dimension text inside the extension lines for all dimension types except ordinate
DIMTIX Draws text between extension lines
DIMTM When DIMTOL or DIMLIM is on, sets the minimum (or lower) tolerance limit for dimension text
DIMTMOVE Sets dimension text movement rules
DIMTOFL Controls whether a dimension line is drawn between the extension lines even when the text is placed outside

DIMTOH Controls the position of dimension text outside the extension lines
DIMTOL Appends tolerances to dimension text
DIMTOLJ Sets the vertical justification for tolerance values relative to the nominal dimension text
DIMTP When DIMTOL or DIMLIM is on, sets the maximum (or upper) tolerance limit for dimension text
DIMTSZ Specifies the size of oblique strokes drawn instead of arrowheads for linear, radius, and diameter dimensioning

DIMTPV Controls the vertical position of dimension text above or below the dimension line
DIMTXSTY Specifies the text style of the dimension
DIMTXT Specifies the height of dimension text, unless the current text style has a fixed height
DIMTZIN Controls the suppression of zeros in tolerance values
DIMUNIT Obsolete. Replaced by DIMLUNIT and DIMFRAC
DIMUPT Controls options for user-positioned text
DIMZIN Controls the suppression of zeroes in the primary unit value

DISPSILH Controls display of silhouette curves of solid objects in Wireframe mode
DISTANCE Stores the distance computed by DIST
DONUTID Sets the default for the inside diameter of a donut
DONUTOD Sets the default for the outside diameter of a donut
DRAGMODE Controls the display of objects being dragged
DRAGP1 Sets the regen-drag input sampling rate
DRAGP2 Sets the fast-drag input sampling rate
DWGCHECK Determines whether a drawing was last edited by a product other than AutoCAD

DWGCODEPAGE Stores the same value as SYSCODEPAGE (for compatibility reasons)

DWGNAME Stores the drawing name as entered by the user

DWGPREFIX Stores the drive/directory prefix for the drawing

DWTITLED Indicates whether the current drawing has been named

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E

EDGEMODE Controls how TRIM and EXTEND determine cutting and boundary edges

ELEVATION Stores the current elevation relative to the current UCS for the current viewport in the current space

EXPERT Controls whether certain prompts are issued

EXPLMODE Controls whether EXPLODE supports nonuniformly scaled (NUS) blocks

EXTMAX Stores the upper-right point of the drawing extents

EXTMIN Stores the lower-left point of the drawing extents

EXTNAMES Sets the parameters for named object names (such as linetypes and layers) stored in symbol tables

F

FACETRATIO Controls the aspect ratio of faceting for cylindrical and conic ACIS solids

FACETRES Adjusts the smoothness of shaded and rendered objects and objects with hidden lines removed

FILEDIA Suppresses display of the file dialog boxes

FILLETRAD Stores the current fillet radius

FILLMODE Specifies whether multilines, traces, solids, all hatches (including solid-fill), and wide polylines are filled in

FONTALT Specifies the alternate font to be used when the specified font file cannot be located

FONTMAP Specifies the font mapping file to be used

FRONTZ Stores the front clipping plane offset from the target plane for the current viewport

FULLOPEN Indicates whether the current drawing is partially open

G

GRIDMODE Specifies whether the grid is turned on or off

GRIDUNIT Specifies the grid spacing (X and Y) for the current viewport

GRIPBLOCK Controls the assignment of grips in blocks

GRIPCOLOR Controls the color of nonselected grips (drawn as box outlines)

GRIPHOT Controls the color of selected grips (drawn as filled boxes)

GRIPS Controls the use of selection set grips for the Stretch, Move, Rotate, Scale, and Mirror grip modes

GRIPSIZE Sets the size of the grip box in pixels

H

HANDLES Reports whether object handles can be accessed by applications

HIDEPRECISION Controls the accuracy of hides and shades

HIGHLIGHT Controls object highlighting; does not affect objects selected with grips

HPANG Specifies the hatch pattern angle

HPBOUND Controls the object type created by BHATCH and BOUNDARY

HPDOUBLE Specifies hatch pattern doubling for user-defined patterns

HPNAME Sets a default hatch pattern name

HPSCALE Specifies the hatch pattern scale factor

HPSPACE Specifies the hatch pattern line spacing for user-defined simple patterns

HYPERLINKBASE Specifies the path used for all relative hyperlinks in the drawing

I

IMAGEHLT Controls whether the entire raster image or only the raster image frame is highlighted

INDEXCTL Controls whether layer and spatial indexes are created and saved in drawing files

INETLOCATION Stores the Internet location used by BROWSER and the Browse the Web dialog box

INSBASE Stores insertion base point set by BASE

INSNAME Sets a default block name for INSERT

INSUNITS When you drag a block from AutoCAD DesignCenter, specifies a drawing units value

INSUNITSDEFSOURCE Sets source content units value

INSUNITSDEFTARGET Sets target drawing units value

ISAVEBAK Improves the speed of incremental saves, especially for large drawings

ISAVEPERCENT Determines the amount of wasted space tolerated in a drawing file

ISOLINES Specifies the number of isolines per surface on objects

L

LASTANGLE Stores the end angle of the last arc entered

LASTPOINT Stores the last point entered

LASTPROMPT Stores the last string echoed to the command line

LENSLENGTH Stores the length of the lens (in millimeters) used in perspective viewing for the current viewport

LIMCHECK Controls the creation of objects outside the drawing limits

LIMMAX Stores the upper-right drawing limits for the current space

LIMMIN Stores the lower-left drawing limits for the current space

LISPINIT When single-document interface is enabled, specifies whether AutoLISP-defined functions and variables are preserved when you open a new drawing

LOCALE Displays the ISO language code of the current AutoCAD version

LOGFILEMODE Specifies whether the contents of the text window are written to a log file

LOGFILENAME Specifies the path and name of the log file

LOGFILEPATH Specifies the path for the log files for all drawings in a session

LOGINNAME Displays the user's name as configured or as input when AutoCAD is loaded

LTSCALE Sets the global linetype scale factor

LUNITS Sets linear units

LUPREC Sets the number of decimal places displayed for linear units

LWDEFAULT Sets the value for the default lineweight

LWDISPLAY Controls whether the linewidth is displayed in the Model or Layout tab

LWUNITS Controls whether linewidth units are displayed in inches or millimeters

M

MAXACTVP Sets the maximum number of viewports that can be active at one time in the display

MAXSORT Sets the maximum number of symbol names or block names sorted by listing commands

MBUTTONPAN Controls the behavior of the third button or wheel on the pointing device

MEASUREINIT Sets the initial drawing units as English or metric

MEASUREMENT Sets drawing units as English or metric for the current drawing only

MENUCTL Controls the page switching of the screen menu

MENUECHO Sets menu echo and prompt control bits

MENUNAME Stores the menu file name, including the path for the filename

MIRRTEXT Controls how MIRROR reflects text

MODEMACRO Displays a text string on the status line

MTEXTED Sets the primary and secondary text editors to use for multiline text objects

N

NOMUTT Suppresses the message display (muttering) when it wouldn't normally be suppressed

O

OFFSETDIST Sets the default offset distance

OFFSETGAPTYPE Controls how to offset polylines when a gap is created as a result of offsetting the individual polyline segments

OLEHIDE Controls the display of OLE objects in AutoCAD

OLEQUALITY Controls the default quality level for embedded OLE objects

OLESTARTUP Controls whether the source application of an embedded OLE object loads when plotting

ORTHOMODE Constrains cursor movement to the perpendicular

OSMODE Sets running object snap modes using bitcodes

OSNAPCOORD Controls whether coordinates entered on the command line override running object snaps

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P

PAPERUPDATE Controls the display of a warning dialog when attempting to print a layout with a paper size different from the paper size specified by the default for the plotter configuration file

PDMODE Controls how point objects are displayed

PDSIZE Sets the display size for point objects

PERIMETER Stores the last perimeter value computed by AREA, LIST, or DBLIST

PFACEVMAX Sets the maximum number of vertices per face

PICKADD Controls whether subsequent selections replace the current selection set or add to it

PICKAUTO Controls automatic windowing at the Select Objects prompt

PICKBOX Sets object selection target height

PICKDRAG Controls the method of drawing a selection window

PICKFIRST Controls whether you select objects before or after you issue a command

PICKSTYLE Controls the use of group selection and associative hatch selection

PLATFORM Indicates which platform of AutoCAD is in use

PLINEGEN Sets how linetype patterns generate around the vertices of a 2D polyline

PLINETYPE Specifies whether AutoCAD uses optimized 2D polylines

PLINEWID Stores the default polyline width

PLOTID Obsolete, has no effect in AutoCAD 2000 except to preserve the integrity of pre-AutoCAD 2000 scripts and LISP routines

PLOTROTMODE Controls the orientation of plots

PLOTTER Obsolete. Has no effect in AutoCAD 2000 except to preserve the integrity of pre-AutoCAD 2000 scripts and LISP routines

PLQUIET Controls the display of optional dialog boxes and nonfatal errors for batch plotting and scripts

POLARADDANG Contains user-defined polar angles

POLARANG Sets the polar angle increment

POLARDIST Sets the snap increment when the SNAPSTYL system variable is set to 1 (polar snap)

POLARMODE Controls settings for polar and object snap tracking

POLYSIDES Sets the default number of sides for POLYGON

POPUPS Displays the status of the currently configured display driver

PRODUCT Returns the product name

PROGRAM Returns the program name

PROJECTNAME Assigns a project name to the current drawing

PROJMODE Sets the current Projection mode for trimming or extending

PROXYGRAPHICS Specifies whether images of proxy objects are saved in the drawing

PROXYNOTICE Displays a notice when you open a drawing containing custom objects created by an application that is not present

PROXYSHOW Controls the display of proxy objects in a drawing

PSLTSCALE Controls paper space linetype scaling

PSPROLOG Assigns a name for a prolog section to be read from the acad.psf file when you are using PSOUT

PSQUALITY Controls the rendering quality of PostScript images

PSTYLEMODE Indicates whether the current drawing is in a Color-Dependent or Named Plot Style mode

PSTYLEPOLICY Controls whether an object's color property is associated with its plot style

PSVPSCALE Sets the view scale factor for all newly created viewports

PUCSBASE Stores the name of the UCS that defines the origin and orientation of orthographic UCS settings in paper space only

Q

QTEXTMODE Controls how text is displayed

R

RASTERPREVIEW Controls whether BMP preview images are saved with the drawing

REFEDITNAME Indicates whether a drawing is in a reference-editing state and stores the reference file name

REGENMODE Controls automatic regeneration of the drawing

RE-INIT Reinitializes the digitizer, digitizer port, and acad.pgp file

RTDISPLAY Controls the display of raster images during Realtime ZOOM or PAN

S

SAVEFILE Stores the current auto-save file name

SAVEFILEPATH Specifies the path to the directory for all automatic save files for the AutoCAD session.

SAVENAME Stores the file name and directory path of the current drawing after you save it

SAVETIME Sets the automatic save interval, in minutes

SCREENBOXES Stores the number of boxes in the screen menu area of the drawing area

SCREENMODE Stores a bitcode indicating the graphics/text state of the AutoCAD display

SCREENSIZE Stores current viewport size in pixels (X and Y)

SDI Controls whether AutoCAD runs in single- or multiple-document interface

SHADEEDGE Controls the shading of edges in rendering

SHADEDIF Sets the ratio of diffuse reflective light to ambient light

SHORTCUTMENU Controls whether Default, Edit, and Command mode shortcut menus are available in the drawing area

SHPNAME Sets a default shape name

SKETCHINC Sets the record increment for SKETCH

SKPOLY Determines whether SKETCH generates lines or polylines

SNAPANG Sets snap and grid rotation angle for the current viewport

SNAPBASE Sets the snap and grid origin point for the current viewport relative to the current UCS

SNAPISOPAIR Controls the isometric plane for the current viewport

SNAPMODE Turns Snap mode on and off

SNAPSTYL Sets snap style for the current viewport

SNAPTYPE Sets the snap style for the current viewport

SNAPUNIT Sets the snap spacing for the current viewport

SOLIDCHECK Turns the solid validation on and off for the current AutoCAD session

SORTENTS Controls the OPTIONS command (from the Selection tab) object sort order operations

SPLFRAME Controls the display of splines and spline-fit polylines

SPLINESEGS Sets the number of line segments to be generated for each spline-fit polyline

SPLINETYPE Sets the type of curve generated by the Spline option of the PEDIT command

SURFTAB1 Sets the number of tabulations to be generated for RULESURF and TABSURF

SURFTAB2 Sets the mesh density in the N direction for REVsurf and EDGESURF

SURFTYPE Controls the type of surface-fitting to be performed by the Smooth option of the PEDIT command

SURFU Sets the surface density for PEDIT Smooth in the M direction

SURFV Sets the surface density for PEDIT Smooth in the N direction

SYSCODEPAGE Indicates the system code page specified in acad.xmf

T

TABMODE Controls the use of the tablet

TARGET Stores the location of the target point for the current viewport

TDCREATE Stores the local time and date the drawing was created

TDINDWG Stores the total editing time

TDUCREATE Stores the universal time and date the drawing was created

TDUPDATE Stores the local time and date of the last update/save

TDUSRTIMER Stores the user-elapsed timer

TDUUPDATE Stores the universal time and date of the last update/save

TEMPPREFIX Contains the directory name for temporary files

TEXTEVAL Controls the method of evaluation for text strings

TEXTFILL Controls the filling of TrueType fonts while plotting, exporting with the PSOUT command, and rendering

TEXTQLTY Sets the resolution tessellation fineness of text outlines for TrueType fonts while plotting, exporting with the PSOUT command, and rendering

TEXTSIZE Sets the default height for new text objects drawn with the current text style

TEXTSTYLE Sets the name of the current text style

THICKNESS Sets the current 3D solid thickness

TILEMODE Makes the Model tab or the last layout tab current

TOOLTIPS Controls the display of tooltips

TRACEWID Sets the default trace width

TRACKPATH Controls the display of polar and object snap tracking alignment paths

TREEDEPTH Specifies the maximum depth, that is, the number of times the tree-structured spatial index can divide into branches

TREEMAX Limits memory consumption during drawing regeneration by limiting the number of nodes in the spatial index (oct-tree)

TRIMMODE Controls whether AutoCAD trims selected edges for chamfers and fillets

TSPACEFAC Controls the multiline text line spacing distance measured as a factor of text height

TSPACETYPE Controls the type of line spacing used in multiline text

TSTACKALIGN Controls the vertical alignment of stacked text

TSTACKSIZE Controls the percentage of stacked text fraction height relative to selected text's current height

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U

UCSAXISANG Stores the default angle when rotating the UCS around one of its axes using the X, Y, or Z options of the UCS command

UCSBASE Stores the name of the UCS that defines the origin and orientation of orthographic UCS settings

UCSFOLLOW Generates a plan view whenever you change from one UCS to another

UCSICON Displays the UCS icon for the current viewport

UCSNAME Stores the name of the current coordinate system for the current viewport in the current space

UCSORG Stores the origin point of the current coordinate system for the current viewport in the current space

UCSORTHO Determines whether the related orthographic UCS setting is restored automatically when an orthographic view is restored

UCSVIEW Determines whether the current UCS is saved with a named view

UCSVP Determines whether the UCS in active viewports remains fixed or changes to reflect the UCS of the currently active viewport

UCSXDIR Stores the X direction of the current UCS for the current viewport in the current space

UCSYDIR Stores the Y direction of the current UCS for the current viewport in the current space

UNDOCTL Stores a bitcode indicating the state of the Auto and Control options of the UNDO command

UNDOMARKS Stores the number of marks that have been placed in the UNDO control stream by the Mark option

UNITMODE Controls the display format for units

USERI1–5 Stores and retrieves integer values

USERR1–5 Stores and retrieves real numbers

USERS1–5 Stores and retrieves text string data

V

VIEWCTR Stores the center of view in the current viewport

VIEWDIR Stores the viewing direction in the current viewport

VIEWMODE Controls the View mode for the current viewport using bitcode

VIEWSIZE Stores the height of the view in the current viewport

VIEWTWIST Stores the view twist angle for the current viewport

VISRETAIN Controls the visibility, color, linetype, linewidth, and plot styles (if

PSTYLEPOLICY is set to 0) of xref-dependent layers and specifies whether nested xref path changes are saved

VSMAX Stores the upper-right corner of the current viewport's virtual screen

VSMIN Stores the lower-left corner of the current viewport's virtual screen

W

WHIPARC Controls whether the display of circles and arcs is smooth

WMFBKGND Controls the background of the output Windows metafile resulting from the WMFOUT command, and for the metafile format of objects placed on the Clipboard or dragged and dropped into other applications

WORLDUCS Indicates whether the UCS is the same as the WCS

WORLDVIEW Determines whether input to the 3DORBIT, DVIEW, and VPOINT commands is relative to the WCS (default), the current UCS, or the UCS specified by the UCSBASE system variable

WRITESTAT Indicates whether a drawing file is read-only or can be written to, for developers who need to determine write status through AutoLISP

X

XCLIPFRAME Controls the visibility of xref clipping boundaries

XEDIT Controls whether the current drawing can be edited in-place when being referenced by another drawing

XFADECTL Controls the fading intensity for references being edited in-place

XLOADCTL Turns xref demand loading on and off and controls whether it opens the original drawing or a copy

XLOADPATH Creates a path for storing temporary copies of demand-loaded xref files

XREFCTL Controls whether AutoCAD writes external reference log (XLG) files

Z

ZOOMFACTOR Controls the incremental change in zoom with each IntelliMouse wheel action, whether forward or backward

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