AutoCAD System Variables

This section covers:

1. **AutoCAD System Variables**
   a. **Variable Names**
   b. **Default Values**
   c. **Commands related to the variable**
   d. **Description and settings**

System Variables R12 – R2005

"What do you want to store or retrieve today?"

   AutoCAD Systems Variables is where AutoCAD does most of its storing of temporary and some permanent values. These values are related to commands and to control how the user interacts with the AutoCAD Environment. Some of these values are drawing parameters for commands like Offset distance, Circle radius and the Units in which are used to input values when drafting.

Related Commands
   Setvar - Calls the System Variable command. Through the use of this command you can set a System Variables value or you can get a listing of all the current settings of all the System Variables.

   Command: Setvar
   Variable name or ?: ?
   Variable(s) to list <*>: * or [Enter]

AutoLISP Functions
   (setvar *variable value***) -** Sets the value of a System Variable
   (getvar *variable***) -** Gets the value of a System Variable

Variable	Default Value	Command(s) affected	Description
_LINFO (Undocumented) (Read-only) (Stored: Not Saved) R12 – 2005	""	*Environment*	Hardware lock serial number. Getvar must be used in order to get the value of this system variable.
_PKSER (Read-only) (Stored: Not Saved) R12 – 2005	339-XXXXXXXX	*Environment*	Returns the serial number assigned to AutoCAD.
_SERVER (Undocumented) (Read-only) (Stored: Not Saved) R12 – 2005	0	*Environment*	Returns the status of the network license server of AutoCAD.

Notes:

Variable	Default Value	Command(s) affected	Description
*_TOOLPALETTEPATH (Stored: Registry) R2004 – 2005	"C:\\Documents and Settings\\…"	OPTIONS	Contains the pathing for the Tool Palettes. So it allows you to change different Tool Palettes based on different ones being stored in different directories. A semi-colon (;) separates each path.
_VERNUM (Undocumented) (Read-only) (Stored: Not Saved) R13 – 2005	"V.0.73"	Environment	Returns a build number for AutoCAD. It allows you to tell what service pack is installed for AutoCAD. R13_c4a - "R.1.72c" R14.0 - "S.0.79" R14.01 - "P.0.31" R2000 - "T.1.07" R2000i - "U.0.90" R2002 - "K.0.30" (SP1 – "K.0.44") R2004 - "V.0.73" (SP1a – "V.1.22") R2005 - "N.30.101" (SP1 – "N.84.0")
ACADLSPASDOC (Stored: Registry) R2000 – 2005	0	PREFERENCES OPTIONS	Controls how AutoCAD will load the Acad.lsp file. 0 - Loads into every drawing opened 1 - Loads into the first drawing opened only.
ACADPREFIX (Read-only) (Stored: Registry) R12 – 2005	"C:\Program …\…"	PREFERENCES OPTIONS	List of support paths used by AutoCAD. These paths may vary from the actual working paths for AutoCAD.
ACADVER (Read-only) (Stored: Not Saved) R12 – 2005	"16.1"	Environment	Version number of AutoCAD 14.0 - R14 14.01 - R14 15.0 - R2000 15.05 - R2000i 15.06 - R2002 16.0 - R2004 16.1 - R2005

Notes:

Variable	Default Value	Command(s) affected	Description
ACIS15 (Stored: Not Saved) R13	0	*Environment*	Format in which AutoCAD processes all solid objects. 0 - ACIS data is saved in ACIS 1.6 format and can only be read by c4 or later versions. 1 - ACIS data is saved in both ACIS 1.5 and ACIS 1.6 format in two different places.
ACISOUTVER (Stored: Not Saved) R14 – 2005	70	ACSIOUT EXPORT	ACIS version of SAT files created using the ACISOUT command. Valid values are 15 – 18, 20, 21, 30, 40, 50, 60 and 70.
ADCSTATE (Undocumented) (Read-only) (Stored: Not Saved) R2000i – 2005	0	ADCENTER ADCCLOSE	Holds the display state of the AutoCAD Design Center. 0 - Not displayed in the environment 1 - Currently displayed in the environment
AFLAGS (Stored: Not Saved) R12 – 2005	0	DDATTDEF ATTDEF	Default values for attribute creation modes. (sum of the following) 0 - No mode present 1 - Invisible 2 - Constant 4 - Verify 8 - Preset
ANGBASE (Stored: In Drawing) R12 – 2005	0.0000	DDUNITS UNITS	Direction of Angle 0 (relative to the current UCS)
ANGDIR (Stored: In Drawing) R12 – 2005	0	DDUNITS UNITS	Angle of rotation 0 - Counterclockwise 1 - Clockwise
APBOX (Stored: In Registry) R14 – 2005	0	DDOSNAP OSNAP	AutoSnap aperture box display 0 - Off 1 - On

Notes:

Variable	Default Value	Command(s) affected	Description
APERTURE (Stored: In Registry) R12 – 2005	10	DDOSNAP OSNAP	Aperture size for object snap (pixels) 1 - Minimum 50 - Maximum
AREA (Read-only) (Stored: Not Saved) R12 – 2005	0.0000	AREA DBLIST LIST	Last calculated area by Area, List or Dblist
ASSISTSTATE (Stored: Not Saved) R2005	0	ASSIST ASSISTCLOSE	Indicates the display status of the AutoCAD Info Palette. 0 - Info Palette is not active 1 - Info Palette is active
ATTDIA (Stored: In Registry) R12 – 2005	0	DDATTE	Attribute interface for entry: 0 - Command line prompts 1 - Dialog Box
ATTMODE (Stored: In Drawing) R12 – 2005	1	ATTDISP	Display of Attributes on the screen. 0 - Off, All attributes are turned off regardless of flags set 1 - Normal, All attributes use the flags they were originally defined with 2 - On, All attributes are turned on regardless of flags set
ATTREQ (Stored: In Registry) R12 – 2005	1	INSERT	Determines if Attribute defaults are used when inserting a symbol. 0 - Default Values 1 - Prompt for values
AUDITCTL (Stored: In Registry) R12 – 2005	0	AUDIT	Determines if a Log file is generated with each Audit performed. File has the extension ADT. 0 - No Audit log is written 1 - Audit log is written

Notes:

Variable	Default Value	Command(s) affected	Description
AUNITS (Stored: In Drawing) R12 – 2005	0	DDUNITS UNITS	Angular unit mode. 0 - Decimal Degrees 1 - Degrees/Minutes/Seconds 2 - Grads 3 - Radians 4 - Surveyor's Units
AUPREC (Stored: In Drawing) R12 – 2005	0	DDUNITS UNITS	Number of decimal places displayed in angles
AUTOSNAP (Stored: In Registry) R14 – 2005	63	DDOSNAP OSNAP	Controls display preferences of AutoSnap: 0 - Off 1 - Turns on the AutoSnap marker 2 - Turns on the AutoSnap tooltips 4 - Turns on the AutoSnap magnet Added to R2000 and up 8 - Turns on Polar Tracking 16 - Turns on Object Snap tracking 32 - Turns on tooltips for Polar and Object Snap Tracking
AUXSTAT (Undocumented) (Stored: Not Saved) R12 – 2005	0	*Environment*	AUX device status. Valid range of values is –32768 to 32767.
AXISMODE (Undocumented) (Stored: Not Saved) R12 – 14	0	*Environment*	Legacy storage holder for the AXIS command located in AutoCAD prior to R12. 0 and 1 are the only valid values.
AXISUNIT (Undocumented) (Stored: Not Saved) R12 – 2005	0.0000,0.0000	*Environment*	Legacy storage holder for the AXIS command located in AutoCAD prior to R12.

Notes:

Variable	Default Value	Command(s) affected	Description
BACKGROUNDPLOT (Stored: In Registry) R2005	2	PLOT PUBLISH	Allows Plotting and Publishing of drawings to happen as a background process allowing you to continue to work without waiting for your plots. Commands –Plot, Plot, -Publish and Publish are performed in the foreground when in scripts. 0 - Use foreground plotting with Plot and Publish which is the legacy behavior of AutoCAD 2004 and prior. 1 - Use background plotting with the Plot command and not Publish. 2 - Use background plotting with the Publish command and not Plot. 3 - Use background plotting for both Plot and Publish commands.
BACKZ (Stored: In Drawing) (Read-only) R12 – 2005	0.0000	DVIEW	Offset for Back clipping plane
BINDTYPE (Stored: Not Saved) R2000 – 2005	0	XREF REFEDIT	Controls how Xref names are handled in a drawing when the commands XREF or REFEDIT are used. 0 - Traditional ("xref|walls" = xref0walls") 1 - Insert-type ("xref|walls" = "walls")
BLIPMODE (Stored: In Registry) R12 - 2005	0	DDRMODES BLIPMODE	Display of blip marks: 0 - Off 1 - On

Notes:

CDATE (Stored: Not Saved) (Read-only) R12 – 2005	19990215.15560660	TIME	Current date and time
CECOLOR (Stored: In Drawing) R12 - 2005	"BYLAYER"	DDEMODES COLOR STATUS	Current object color. Prior to R2004 the value was returned from "1" – "255", "BYLAYER", or "BYBLOCK" in value. R2004 reports the value back as "1" – "255", "BYLAYER", "BYBLOCK", plus "RGB:000,000,000" when a True color is set.

Notes:

Variable	Default Value	Command(s) affected	Description
CELTSCALE (Stored: In Drawing) R13 – 2005	1.0000	DDLTYPE DDEMODES DDLMODES (R14) LINETYPE STATUS	Global Linetype scale
CELTYPE (Stored: In Drawing) R12 – 2005	"BYLAYER"	DDLTYPE DDEMODES DDLMODES (R14) LINETYPE STATUS	Current object Linetype
CELWEIGHT (Stored: In Drawing) R2000 – 2005	-1	LWEIGHT	Current object line weight. -1 - Sets Lineweight to "ByLayer" -2 - Sets Lineweight to "ByBlock" -3 - Sets Lineweight to "Default". Line weight is controlled by the system variable LWDEFAULT Other values include 0, 5, 9, 13, 15, 18, 20, 25, 30, 35, 40, 50, 53, 60, 70, 80, 90, 100, 106, 120, 140, 158, 200 and 211. These values are expressed in hundredths of a millimeter.
CHAMFERA (Stored: In Drawing) R12 – 2005	0.0000	CHAMFER	First Chamfer distance
CHAMFERB (Stored: In Drawing) R12 – 2005	0.0000	CHAMFER	Second Chamfer distance
CHAMFERC (Stored: In Drawing) R13 – 2005	0.0000	CHAMFER	Chamfer distance
CHAMFERD (Stored: In Drawing) R13 – 2005	0.0000	CHAMFER	Chamfer angle

Notes:

Variable	Default Value	Command(s) affected	Description
CHAMMODE (Stored: Not Saved) R13 – 2005	0	CHAMFER	Chamfer creation mode: 0 - Chamfer by two distances 1 - Chamfer by distance and angle
CIRCLERAD (Stored: Not Saved) R12 – 2005	0.0000	CIRCLE	Last circle radius 0 - No default n - Last used value
CLAYER (Stored: In Drawing) R12 – 2005	"0"	DDLMODES LAYER -LAYER(R14) STATUS	Current layer
CLEANSCREENSTATE (Stored: Not Saved) R2004 – 2005	0	*Environment*	Holds the current state of Clean Screen 0 - AutoCAD is in normal state displaying the Title bar, Toolbars and Palettes 1 - AutoCAD is in Clean Screen state and the Title bar, Toolbars and Palettes are not displayed
CMDACTIVE (Stored: Not Saved) (Read-only) R12 – 2005	0	*Any Command*	Current type of command active: 1 - Regular command 2 - Transparent command 4 - Script file 8 - Dialog box 16 - AutoLISP or DDE command Added to R2000 and up 32 - AutoLISP is active, but is only visible to a command that is defined by 64 - ObjectARX. ObjectARX command is currently active
CMDDIA (Stored: In Registry) R12 – 2005	1	*Environment*	Command dialog box interface style: 0 - Command line 1 - Dialog box

Notes:

Variable	Default Value	Command(s) affected	Description
CMDECHO (Stored: Not Saved) R12 – 2005	1	*Environment*	Controls command prompt echoing from AutoLISP programs: 0 - Off 1 - On
CMDNAMES (Stored: Not Saved) (Read-only) R12 – 2005	"SETVAR"	*Any Command*	Current active command
CMLJUST (Stored: In Drawing) R13 – 2005	0	MLINE	Multiline Justification: 0 - Top 1 - Middle 2 - Bottom
CMLSCALE (Stored: In Drawing) R13 – 2005	1.0000	MLINE	Multiline Scale: 0 - Single Line 1 - Default width n - Distance between lines
CMLSTYLE (Stored: In Drawing) R13 – 2005	"STANDARD"	MLINE MLSTYLE	Current Multiline style
COMPASS (Stored: Not Saved) R2000 – 2005	0	3DORBIT	Toggles the display of the 3D compass On or Off in viewports. 0 - Turns Off the 3D compass 1 - Turns On the 3D compass
COORDS (Stored: In Registry) R12 – 2005	1	*Environment*	Coordinate display: 0 - Update on points picked only 1 - Continuous update 2 - Display Polar during a request

Notes:

Variable	Default Value	Command(s) affected	Description
CPLOTSTYLE (Stored: In Drawing) R2000 – 2005	"ByColor"	PLOT	The current plot style for new objects. Values are based on the Plot Style loaded. "ByColor" "ByBlock" "Normal" "User Defined"
CPROFILE (Stored: In Registry) (Read-only) R2000 – 2005	"Vanilla"	PREFERENCES OPTIONS	The current user profile that is loaded.
CPUTICKS (Stored: Not Saved) (Undocumented) (Read-only) R2000i – 2005	2593123458419.000	*Environment*	Number of CPU clock ticks and is from the Pentium counter register. It's a very high frequency timer.
CTAB (Stored: In Drawing) R2000 – 2005	"Model"	*Environment*	The layout tab that is currently in use within the drawing.
CTABLESTYLE (Stored: In Drawing) R2005	"Standard"	TABLE TABLESTYLE PROPERTIES STATUS	Current Table Style name
CURRENTPROFILE (Stored: In Registry) (Read-only) R14	"Vanilla"	PREFERENCES	The current user profile that is loaded.
CURSORSIZE (Stored: In Registry) R14 – 2005	5	PREFERENCES OPTIONS	Current cursor size. Valid range is 1 to 100.
CVPORT (Stored: In Drawing) R12 – 2005	2	VPORTS	Total number of viewports currently allowed

Notes:

Variable	Default Value	Command(s) affected	Description
DATE (Stored: Not Saved) (Read-only) R12 – 2005	2451225.90308183	TIME	Current date and time in Julian format
DBCSTATE (Undocumented) (Stored: Not Saved) (Read-only) R2000i – 2005	0	DBCONNECT DBCCLOSE	Holds the display state of dbConnect. 0 - Not displayed in the environment 1 - Currently displayed in the environment
DBGLISTALL (Undocumented) (Stored: Not Saved) R12 – R14	0		Controls the type of Debug listing… possibly indicating a "Debug List All". 0 and 1 are the only valid values.
DBMOD (Stored: Not Saved) (Read-only) R12 – 2005	4	*Used by most commands*	Status of modifications to draw: 1 - Object database modified 2 - Symbol Table 4 - Database variable modified 8 - Window modified 16 - View modified Added to R2005 32 - Field modified
DCTCUST (Stored: In Registry) R13 – 2005	""	SPELL	Path of where the custom dictionary is located: "C:\Program…\support\sample.cst".
DCTMAIN (Stored: In Registry) R13 – 2005	"enu"	SPELL	Displays the main dictionary for spelling
DEFLPLSTYLE (Stored: In Registry) R2000 – 2005	"ByColor"	PLOT PUBLISH	Controls the default plot style associated with new layers.

Notes:

Variable	Default Value	Command(s) affected	Description
DEFPLSTYLE (Stored: In Registry) R2000 – 2005	"ByColor"	PLOT PUBLISH	Controls the default plot style associated with new objects.
DELOBJ (Stored: In Registry) R13 – 2005	1	*Modify Commands*	Determines whether source objects are deleted: 0 - Objects deleted 1 - Objects retained
DEMANDLOAD (Stored: In Registry) R14 – 2005	3	PREFERENCES OPTIONS	Determines how AutoCAD interacts with custom objects created by a third-party application 0 - Demand loading is off 1 - Application is loaded when you open a drawing containing the custom objects 2 - Application is loaded when you invoke one of the applications commands 3 - Application is loaded when a drawing contain custom objects is opened and/or one of the applications commands are invoked
DIASTAT (Stored: Not Saved) (Read-only) R12 – 2005	1	DD*****	State of how the user exited a dialog box: 0 - Cancel 1 - OK
DIMADEC (Stored: In Drawing) R14 – 2005	-1	DDIM	The number of places of precision displayed for angular dimension text: -1 - Uses DIMDEC value 0 - No decimal places used 8 - Maximum decimal places
DIMALT (Stored: In Drawing) R12 – 2005	OFF (or 0)	DDIM	Determines the state of creation which includes the measurement in alternative units: Off (0) - Don't add text On (1) - Add text

Notes:

Variable	Default Value	Command(s) affected	Description
DIMALTD (Stored: In Drawing) R12 – 2005	2	DDIM	The number of decimal places in alternate units.
DIMATLF (Stored: In Drawing) R12 – 2005	25.4000	DDIM	Scale factor in alternate units.
DIMALTRND (Stored: In Drawing) R2000 – 2005	0.0000	DDIM	Rounds of the value of the alternate units.
DIMALTTD (Stored: In Drawing) R13 – 2005	2	DDIM	The number of decimal places for the tolerance values in the alternate units of a dimension.
DIMALTTZ (Stored: In Drawing) R13 – 2005	0	DDIM	Suppression of zeros in tolerance values: 0 - Suppresses zero feet and zero inches 1 - Includes zero feet and zero inches 2 - Includes zero feet and suppresses zero inches 3 - Includes zero inches and suppresses zero feet You can also add to the above values: 4 - Suppresses leading zeros. 8 - Suppresses trailing zeros.
DIMALTU (Stored: In Drawing) R13 – 2005	2	DDIM	Specifies what Alternative Units are used for dimensions except Angular. 1 - Scientific 2 - Decimal 3 - Engineering 4 - Architectural (stacked) 5 - Fractional (stacked) 6 - Architectural 7 - Fractional 8 - Windows Desktop

Notes:

Variable	Default Value	Command(s) affected	Description
DIMALTZ (Stored: In Drawing) R13 – 2005	0	DDIM	Suppression of zeros for alternate unit dimension values. 0 - Suppresses zero feet and inches 1 - Includes zero feet and precisely zero inches 2 - Includes zero feet and suppresses zero inches 3 - Includes zero inches and suppresses zero feet 4 - Suppresses leading zeros in decimal dimensions 8 - Suppresses trailing zeros in decimal dimensions 12 - Suppresses both leading and trailing zeros
DIMAPOST (Stored: In Drawing) R12 – 2005	""	DDIM	Specifies a prefix or suffix (or both) to the alternate dimension measurement.
DIMASO (Obsolete – R2004 & up) (Stored: In Drawing) R12 – 2005	1 (or On)	DDIM	Controls the associativity of dimension objects. 0 - Off 1 - On
DIMASSOC (Stored: In Drawing) R2002 – 2005	2	DDIM	Controls the associativity of dimension objects. 0 - Creates dimensions that are exploded. No association between any objects that are created is maintained. 1 - Non-associative dimension objects are created. All objects that are created interact as if they where one complete object, if the definition point is moved. 2 - Associative dimension objects are created. All objects that are created interact as if they where one complete object, more than one definition point is created based on geometric points.

Notes:

Variable	Default Value	Command(s) affected	Description
DIMASZ (Stored: In Drawing) R12 – 2005	0.1800	DDIM	Size of dimension lines and arrowheads.
DIMATFIT (Stored: In Drawing) R2000 – 2005	3	DDIM	Determines how dimension arrows and text are arranged when insufficient space is available to place both within the extension lines. 0 - Both text and arrows are placed outside the extension line 1 - Arrows is placed outside of the extension line then text 2 - Text is placed outside of the extension line then arrows 3 - Either arrows or text is placed outside of extension lines, whichever fits best
DIMAUNIT (Stored: In Drawing) R13 – 2005	0	DDIM	Units used for Angular dimensions. 0 - Decimal degrees 1 - Degrees/minutes/seconds 2 - Gradians 3 - Radians 4 - Surveyor's units (seems to have been removed from the On-line help around R2000, but still works yet)
DIMAZIN (Stored: In Drawing) R2000 – 2005	0	DDIM	Suppresses the zeros in angular dimensions. 0 - Leading and trailing zeros are displayed 1 - Leading zeros are suppressed 2 - Trailing zeros are suppressed 3 - Leading and trailing zeros suppressed

Notes:

Variable	Default Value	Command(s) affected	Description
DIMBLK (Stored: In Drawing) R12 – 2005	""	DDIM	Name of user defined block to be used with dimensions. Below is the listing of the standard arrowhead values "" - Closed Filled "_DOT" - Dot "_DOTSMALL" - Small Dot "_DOTBLANK" - Blank Dot "_ORIGIN" - Origin Indicator "_ORIGIN2" - Origin Indicator 2 "_OPEN" - Open "_OPEN30" - 30 deg "_OPEN90" - 90 deg or Right Angle "_CLOSED" - Closed "_SMALL" - Small Blank Dot "_NONE" - None "_OBLIQUE" - Oblique "_BOXFILLED" - Filled Box "_BOXBLANK" - Blank Box "_CLOSEDBLANK" - Blank Closed "_DATUMFILLED" - Filled Datum Triangle "_DATUMBLANK" - Blank Datum Triangle "_INTEGRAL" - Integral "_ARCHTICK" - Architectural Tick
DIMBLK1 (Stored: In Drawing) R12 – 2005	""	DDIM	Specifies user-defined arrowheads for dimensions. Used on the first side of the dimension. See DIMBLK for full listing of values.
DIMBLK2 (Stored: In Drawing) R12 – 2005	""	DDIM	Specifies user-defined arrowheads for dimensions. Used on the second side of the dimension. See DIMBLK for full listing of values.
DIMCEN (Stored: In Drawing) R12 – 2005	0.0900	DDIM	Controls drawing of circle or arc center marks and center lines. 0 - No center marks or lines are drawn. <0 - Center lines are drawn. >0 - Center marks are drawn.

Notes:

Variable	Default Value	Command(s) affected	Description
DIMCLRD (Stored: In Drawing) R12 – 2005	0	DDIM	Sets the color in which dimension lines, leaders and arrowheads will be created with.
DIMCLRE (Stored: In Drawing) R12 – 2005	0	DDIM	Sets the color for the creation of extension lines in dimensions.
DIMCLRT (Stored: In Drawing) R12 – 2005	0	DDIM	Sets the color for the creation of the text in a dimension.
DIMDEC (Stored: In Drawing) R12 – 2005	4	DDIM	Sets the precision number of a dimension tolerance, (set under Primary Units).
DIMDLE (Stored: In Drawing) R12 – 2005	0.0000	DDIM	Sets the distance in which the dimension line will be extended past the extension line.
DIMDLI (Stored: In Drawing) R12 – 2005	0.3800	DDIM	Controls the distance between baseline dimensions. The number supplied will be used to ensure that dimensions don't become over laid.
DIMDSEP (Stored: In Drawing) R14 – 2005	""	DDIM	Allows you to change the decimal separator when DIMUNITS is set to 2.
DIMEXE (Stored: In Drawing) R12 – 2005	0.1800	DDIM	Controls the distance that an extension line will be created beyond the dimension line.
DIMEXO (Stored: In Drawing) R12 – 2005	0.0625	DDIM	Controls the distance from a dimension extension line to an object.

Notes:

Variable	Default Value	Command(s) affected	Description
DIMFIT (Obsolete – R2004 & up) (Stored: In Drawing) R13 – 2002	3	DDIM	Controls how arrowheads and dimension text should fit inside or the outside of a dimension. This system variable was replaced with DIMAFIT and DIMTMOVE. 0 - Both text and arrowheads are placed on the outside extension lines. 1 - Text is placed between the extension lines and arrowheads are placed on the outside. 2 - Arrowheads are placed between the extension lines and text is on the outside. 3 - Text is placed between the extension lines and places the arrowheads on the outside. 4 - Same as number 3, except leaders also connect the text to the dimension line unlike number 3. 5 - Both arrowheads and text are placed on the inside of the extension lines, unless not enough space is between the extension lines.
DIMFRAC (Stored: In Drawing) R2000 – 2005	0	DDIM	Controls the output of how fractions are displayed when DIMLUNITS are set to 4 (Architectural) or 5 (Fractional). 0 - Horizontal 1 - Diagonal 2 - Not stacked
DIMGAP (Stored: In Drawing) R12 – 2005	0.0900	DDIM	Controls the gap around the dimension text in the dimension line.

Notes:

Variable	Default Value	Command(s) affected	Description
DIMJUST (Stored: In Drawing) R13 – 2005	0	DDIM	Controls the horizontal justification of dimension text. 0 - The text is above the dimension line and center-justifies it in between the extension lines. 1 - The text is placed next to the first extension line. 2 - The text is placed next to the second extension line. 3 - The text is placed above and aligned with the first extension line. 4 - The text is placed above and aligned with the second extension line.
DIMLDRBLK (Stored: In Drawing) R2000 – 2005	""	DDIM	Controls the type of arrow that is used for a Leader. To display no arrowhead enter "." for the value.
DIMLFAC (Stored: In Drawing) R12 – 2005	1.0000	DDIM	Globally scale all linear dimensions by a scale factor to adjust the size of the dimensions in a viewport.
DIMLIM (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Controls the appearance of whether dimension text is two numbers representing an upper and lower limits. 0 - Normal text 1 - Limits text
DIMLUNIT (Stored: In Drawing) R2000 – 2005	2	DDIM	Controls the type of units used for all dimensions except angular dimensions. 1 - Scientific 2 - Decimal 3 - Engineering 4 - Architectural 5 - Fractional 6 - Windows Desktop

Notes:

Variable	Default Value	Command(s) affected	Description
DIMLWD (Stored: In Drawing) R2000 – 2005	-2	DDIM	Controls the line weight that is used for dimension lines. -2 - Sets Lineweight to "ByBlock" -3 - Sets Lineweight to "ByLayer" Other values include 0, 5, 9, 13, 15, 18, 20, 25, 30, 35, 40, 50, 53, 60, 70, 80, 90, 100, 106, 120, 140, 158, 200 and 211. These values are expressed in hundredths of a millimeter.
DIMLWE (Stored: In Drawing) R2000 – 2005	-2	DDIM	Controls the line weight that is used for extension lines. -2 - Sets Lineweight to "ByBlock" -3 - Sets Lineweight to "ByLayer" Other values include 0, 5, 9, 13, 15, 18, 20, 25, 30, 35, 40, 50, 53, 60, 70, 80, 90, 100, 106, 120, 140, 158, 200 and 211. These values are expressed in hundredths of a millimeter.
DIMPOST (Stored: In Drawing) R12 – 2005	""	DDIM	Holds the user-defined prefix and/or suffix for the dimension text.
DIMRND (Stored: In Drawing) R12 – 2005	0.0000	DDIM	The value for how linear dimension text is rounded.
DIMSAH (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Activates the use of DIMBLK1 and DIMBLK2 versus DIMBLK or the default. 0 - DIMBLK1 gets used 1 - DIMBLK1 and DIMBLK2 gets used
DIMSCALE (Stored: In Drawing) R12 – 2005	1.0000	DDIM	Represents the global scale factor in which all dimensions should be drawn by.

Notes:

Variable	Default Value	Command(s) affected	Description
DIMSD1 (Stored: In Drawing) R13 – 2005	Off (or 0)	DDIM	Suppress the first dimension line. 0 - Suppress Off 1 - Suppress On
DIMSD2 (Stored: In Drawing) R13 – 2005	Off (or 0)	DDIM	Suppress the second dimension line. 0 - Suppress Off 1 - Suppress On
DIMSE1 (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Suppress the first extension line. 0 - Suppress Off 1 - Suppress On
DIMSE2 (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Suppress the second extension line. 0 - Suppress Off 1 - Suppress On
DIMSHO (Obsolete – R2004 & up) (Stored: In Drawing) R12 – 2002	On (or 1)	DDIM	Determines if associative dimension text are updated during dragging 0 - Update Off 1 - Update while dragging
DIMSOXD (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Suppress dimension lines outside the extension lines (only when text is forced on the outside of the extension lines). 0 - Suppress Off 1 - Suppress On
DIMSTYLE (Read-only) (Stored: In Drawing) R12 – 2005	"STANDARD"	DDIM	Dimension Style that is currently active.
DIMTAD (Stored: In Drawing) R12 – 2005	0	DDIM	Justification of vertical dimension text. 0 - Centered inside dimension 1 - Above dimension line 2 - On the side of the dimension line opposite of the dimension points 3 - Conform to JIS standards

Notes:

Variable	Default Value	Command(s) affected	Description
DIMTDEC (Stored: In Drawing) R13 – 2005	4	DDIM	Decimal places represented in the primary dimension tolerance text.
DIMTFAC (Stored: In Drawing) R12 – 2005	1.0000	DDIM	Scale factor for dimension tolerance text height and fraction height.
DIMTIH (Stored: In Drawing) R12 – 2005	On (or 1)	DDIM	Determines if dimension text inside the extension lines is aligned or horizontal with the dimension line. 0 - Align with dimension 1 - Horizontal to the dimension
DIMTIX (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Determines if dimension text is forced inside the extension lines even if it will not fit. 0 - Don't force text inside the dimension 1 - Always force text inside dimension
DIMTM (Stored: In Drawing) R12 – 2005	0.0000	DDIM	Lower (or negative) tolerance value used if DIMLIM or DIMTOL are active
DIMTMOVE (Stored: In Drawing) R2000 – 2005	0	DDIM	Controls how dimension text can move: 0 - Dimension line moves with dimension text 1 - Creates a leader when dimension text is moved 2 - No leader is created and text can be freely moved
DIMTOFL (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Determines if a dimension line is still drawn between the two extension lines when the text is placed outside of the extension lines. 0 - No line will be drawn 1 - Line is always drawn

Notes:

Variable	Default Value	Command(s) affected	Description
DIMTOH (Stored: In Drawing) R12 – 2005	On (or 1)	DDIM	Determines if the dimension text outside of the extension lines is always drawn aligned or horizontal to the dimension line. 0 - Align with dimension 1 - Horizontal to the dimension
DIMTOL (Stored: In Drawing) R12 – 2005	Off (or 0)	DDIM	Determines if dimension text will include the use of the tolerance values (DIMTM and DIMTP). 0 - No tolerance is added or used 1 - Tolerance is added
DIMTOLJ (Stored: In Drawing) R13 – 2005	1	DDIM	Justification of vertical tolerance text, relative to the primary dimension text. 0 - Bottom 1 - Middle 2 - Top
DIMTP (Stored: In Drawing) R12 – 2005	0.0000	DDIM	Upper (or positive) tolerance value used if DIMLIM or DIMTOL are active
DIMTSZ (Stored: In Drawing) R12 – 2005	0.0000	DDIM	Determines the size at which a tick mark will be drawn at. If the value is zero, arrowheads are drawn.
DIMTVP (Stored: In Drawing) R12 – 2005	0.0000	DDIM	The percentage of dimension text height that will be used to create an offset for vertical dimension text. DIMTVP is ignored unless DIMTAD is set to a value of 0.
DIMTXSTY (Stored: In Drawing) R13 – 2005	"STANDARD"	DDIM	Text style to be used for dimension text.
DIMTXT (Stored: In Drawing) R12 – 2005	0.1800	DDIM	The default text height the will be used when a text style doesn't have a fixed height.

Notes:

Variable	Default Value	Command(s) affected	Description
DIMTZIN (Stored: In Drawing) R13 – 2005	0	DDIM	Determines if zeros will be suppressed or not in tolerance values. 0 - Suppresses zero feet and zero inches 1 - Includes zero feet and zero inches 2 - Includes zero feet and suppresses zero inches 3 - Suppresses zero feet and includes zero inches 4 - Suppresses leading zeroes in decimal dimensions (for example, 0.2500 becomes .2500) 8 - Suppresses trailing zeroes in decimal dimensions (for example, 1.2500 becomes 1.25) 12 - Suppresses both leading and trailing zeroes (for example, 0.2500 becomes .25)
DIMUNIT (Obsolete – R2004 & up) (Stored: In Drawing) R13 – 2002	2	DDIM	Format of units for primary dimension text (DIMALT must be set to 1). This system variable was replaced with DIMLUNIT and DIMFRAC. 1 - Scientific 2 - Decimal 3 - Engineering 4 - Architectural (stacked fractions) 5 - Fractional (stacked fractions) 6 - Architectural 7 - Fractional 8 - Windows Desktop
DIMUPT (Stored: In Drawing) R13 – 2005	Off (or 0)	DDIM	Determines how text will be placed during the creation of a dimension. 0 - Text always does to it's default place 1 - Dimension text moves freely along the dimension line as you drag the dimension into place

Notes:

Variable	Default Value	Command(s) affected	Description
DIMZIN (Stored: In Drawing) R12 – 2005	0	DDIM	Determines if zeros will be suppressed or not in the primary unit value. 0 - Suppresses zero feet and zero inches 1 - Includes zero feet and zero inches 2 - Includes zero feet and suppresses zero inches 3 - Suppresses zero feet and includes zero inches 4 - Suppresses leading zeroes in decimal dimensions (for example, 0.2500 becomes .2500) 8 - Suppresses trailing zeroes in decimal dimensions (for example, 1.2500 becomes 1.25) 12 - Suppresses both leading and trailing zeroes (for example, 0.2500 becomes .25) Note: AutoLISP functions (rtos) and (angtos) are affected by these settings.
DISPSILH (Stored: In Drawing) R13 – 2005	0	PREFERENCES	Displays silhouette of 3D solids: 0 - Off 1 - On
DISTANCE (Read-only) (Stored: Not Saved) R12 – 2005	125.1875	DISTANCE	Last distance measured with the Distance or Dist command.
DONUTID (Stored: Not Saved) R12 – 2005	0.5000	DONUT	Inside diameter of a Doughnut or Donut
DONUTOD (Stored: Not Saved) R12 – 2005	1.0000	DONUT	Outside diameter of a Doughnut or Donut

Notes:

Variable	Default Value	Command(s) affected	Description
DRAGMODE (Stored: In Registry) R12 – 2005	2	PREFERENCES	Drag mode: 0 - No Dragging 1 - On request 2 - Automatic
DRAGP1 (Stored: In Registry) R12 – 2005	10	PREFERENCES	Sets regen-drag input sampling rate
DRAGP2 (Stored: In Registry) R12 – 2005	25	PREFERENCES	Sets fast-drag input sampling rate
DRAWORDERCTL (Stored: In Drawing) R2005	3	*Objects in Drawing*	Controls the behavior of Draw Order functionality. 0 - Default display of objects with Draw Order is disabled or off. All new objects created or added to the drawing will appear on top and don't inherit Draw Order values from objects that they are created from. 1 - Default display of objects with Draw Order is enabled or on. Objects that are edited reflect the correct Draw Order. 2 - Enables Draw Order inheritance for objects that are created from other objects. Draw Order is maintained between objects. 3 - Enables the full feature set of Draw Order including both correctly displaying Draw Order and inheritance of Draw Order.

Notes:

Variable	Default Value	Command(s) affected	Description
DWGCHECK (Stored: In Registry) R14 – 2005	On (or 1)	*Environment*	Controls the automatic data integrity check of AutoCAD when a drawing is being opened. AutoCAD R14 0 - Off 1 - On AutoCAD 2000 and up 0 - Warns if the drawing has potential problems before the drawing is opened 1 - Warns if the drawing has potential problems before the drawing is opened and the file was saved by an application other than AutoCAD or AutoCAD LT 2 - Opens the drawing and notification is handled via the command line if potential problems were found 3 - Opens the drawing and notification is handled via the command line if potential problems were found and the file was saved by an application other than AutoCAD or AutoCAD LT
DWGCODEPAGE (Read-only) (Stored: In Drawing) R12 – 2005	"ANSI_1252"	*Environment*	Drawing code page (See SYSCODEPAGE)
DWGNAME (Read-only) (Stored: Not Saved) R12 – 2005	"Drawing1.dwg"	*Environment*	Drawing Name w/ Extension
DWGPREFIX (Read-only) (Stored: Not Saved) R12 – 2005	"C:\Documents and Settings\...\My Documents\"	*Environment*	Path Location of the current drawing

Notes:

Variable	Default Value	Command(s) affected	Description
DWGTITLED (Read-only) (Stored: Not Saved) R12 – 2005	0	*Environment*	Determines if the current drawing has been named: 0 - Unnamed 1 - Named
DWGWRITE (Obsolete – R14 & up) (Stored: Not Saved) R12 – R13	1	*Environment*	Determines the state in which a drawing is opened. (For R14 and up use WRITESTAT) 0 - Read only 1 - Read and write
EDGEMODE (Stored: In Registry) R13 – 2005	0	TRIM EXTEND	Current edge mode for Trim & Extend: 0 - No Extension 1 - Extends cutting edge
ELEVATION (Stored: In Drawing) R12 – 2005	0.0000	*Drawing and modify commands*	Elevation relative to current UCS
ENTMODS (Undocumented) (Stored: Not Saved) (Read-only) R12 – 2005	0	*Environment*	Increments with each object added or modified in the drawing database. Typically the incremented amount is by two, possibly open and closing of the undo record.
ENTEXTS (Undocumented) (Stored: In Registry) R12 – 2005	1	*Environment*	Determines the method of calculation used for the drawing extents. 0 - Extents are calculated each time the value is needed (Slowest and uses no memory) 1 - Extents are cached using a 2-byte number 2 - Extents are cached using a 4-byte number (Fastest, but uses more memory)
ERRNO or *ERRNO (Stored: Not Saved) R12 – 2005	0	*Environment (AutoLISP)*	Reports what type of error occurred with in the AutoLISP program. This value is reset at the startup of AutoCAD and upon opening a drawing. These values currently range from 0 – 85 in value. Look at the AutoCAD help files for full list of values and meanings.

Notes:

Variable	Default Value	Command(s) affected	Description

EXPERT
(Stored: Not Saved)
R12 – 2005
	0	*Environment*	Controls the display of certain prompts:
			0 - Issues prompts normally
			1 - Suppresses:
			    "About to regen, proceed?"
			    "Really want to turn the current layer off?"
			2 - Suppresses the preceding prompts &
			    "Block already defined. Redefine it?"
			    "A block with this name already exists. Overwrite it?"
			3 - Suppresses the preceding prompts & prompts related to Linetypes.
			4 - Suppresses the preceding prompts & prompts related to UCS Save and Vports Save commands
			5 - Suppresses the preceding prompts & prompts related to DimStyle Save and DimOverride commands

EXPLMODE (Stored: Not Saved) R13 – 2005	1	EXPLODE	Explode mode: 0 - Does not explode NUS blocks 1 - Explodes NUS blocks
EXTMAX (Read-only) (Stored: Not Saved) R12 – 2005	12.000,9.0000,0.0000	*Display*	Upper right drawing coordinate
EXTMIN (Read-only) (Stored: Not Saved) R12 – 2005	0.0000,0.0000,0.0000	*Display*	Lower left drawing coordinate

Notes:

Variable	Default Value	Command(s) affected	Description
EXTNAMES (Stored: In Drawing) R2000 – 2005	1	*Drawing Database*	Controls how AutoCAD will accept symbol and table names from the user. 0 - R14 and previous parameters. Limits type of characters to letters A to Z, numbers 0 to 9 and special characters to $ (dollar sign), _ (underscore) and – (hyphen). The limit of 31 characters is also enforce. 1 - R2000 parameters. Limits type of characters to letters A to Z, numbers 0 to 9 and any special character that is allowed by Microsoft Windows or AutoCAD. The limit of 31 characters is brought up to a limit of 255.
FACETRATIO (Stored: Not Saved) R14 – 2005	0	*3D/Display*	Controls the aspect ratio of faceting for cylindrical and conic ACIS solids. 0 - Creates an N by 1 mesh 1 - Creates an N by M mesh
FACETRES (Stored: In Drawing) R13 – 2005	0.5	*3D/Display*	Adjusts smoothness of hidden line or shaded objects 0.01 - Minimum 10.0 - Maximum
FFLIMIT (Obsolete – R14 & up) (Stored: In Config) R12 – R13	0	*Environment*	Maximum number of fonts loaded into memory (TrueType and PostScript): 0 - No limit n - Number of fonts total
FIELDDISPLAY (Stored: In Registry) R2005	1	FIELD MTEXT ATTDEF	Controls if a gray fill is used to display the use of a field on screen. The gray is not plotted. 0 - Fields don't show with a gray background 1 - Fields do show with a gray background

Notes:

Variable	Default Value	Command(s) affected	Description
FIELDEVAL (Stored: In Drawing) R2005	31	FIELD MTEXT ATTDEF OPEN SAVE SAVEAS QSAVE REGEN REGENALL ETRANSMIT PLOT PUBLISH	Controls the various different ways that Fields get updated. 0 - No updating of the Fields happens 1 - Update when the drawing is opened 2 - Updated when the drawing is saved 4 - Updated before the drawing is plotted or published 8 - Updated when the drawing is to be packaged up with eTransmit 16 - Updated when a regeneration is invoked
FILEDIA (Stored: In Registry) R12 – 2005	1	*Environment*	File dialog interface: 0 - Command line prompting is used 1 - Dialog box
FILLETRAD (Stored: In Drawing) R12 – 2005	0.0000 or 0.5000	FILLET	Current radius for Fillets
FILLMODE (Stored: In Drawing) R12 – 2005	1	DDRMODES	Fill mode for hatches and solids: 0 - Off 1 - On
FLATLAND (Undocumented) (Stored: In Drawing) R12 - 2005	0	*Environment*	Controlled whether or not the drawing had no elevation in the old 2 ½ D system. It allowed menus, scripts and LISP apps to run in Pre-R10 compatibility mode. Making LISP return and honor 2D points instead of 3D points. From R12 on the value was fixed at 0 and can't be changed to 1 anymore. 0 - Off (3D Points are used) 1 - On (2D points are used)

Notes:

FORCE_PAGING (Undocumented) (Stored: Not Saved) R13 – 2005	0	*Environment*	Used originally in R13 to exercise the object pager. It no longer serves a function after R13. Range of 0 to 4294967295 is valid.

Notes:

Variable	Default Value	Command(s) affected	Description
FONTALT (Stored: In Registry) R13 – 2005	"simplex.shx"	PREFERENCES	Name of alternative font.
FONTMAP (Stored: In Registry) R13 – 2005	"..\support\acad.fmp"	PREFERENCES	Name of font mapping file.
FRONTZ (Stored: In Drawing) (Read-only) R12 – 2005	0.0000	DDVIEW	Offset for Front clipping plane
FULLOPEN (Stored: Not Saved) (Read-only) R2000 - 2005	1	OPEN PARTIALOAD PARTIALOPEN	Indicates the state of the current AutoCAD drawing. 0 - Partially opened drawing 1 - Fully opened drawing
GFANG (Stored: Not Saved) R2004 – 2005	0	BHATCH	Controls the angle used for the gradient fill. Valid value range is 0 – 360.
GFCLR1 (Stored: Not Saved) R2004 – 2005	"RGB:000,000,256"	BHATCH	Specifies the color used in a one-color fill or the first color in a two-color gradient fill. The number is expressed as a True Color in the format of "RGB:000,000,000".
GFCLR2 (Stored: Not Saved) R2004 – 2005	"RGB:255,255,153"	BHATCH	Specifies the second color in a two-color gradient fill. The number is expressed as a True Color in the format of "RGB:000,000,000".
GFCLRLUM (Stored: Not Saved) R2004 – 2005	1.0000	BHATCH	Specifies the color tint (mixture of white) or a shade (mixture of black) in a one-color fill or gradient fill.

Notes:

Variable	Default Value	Command(s) affected	Description
GFCLRSTATE (Stored: Not Saved) R2004 – 2005	1	BHATCH	Specifies the gradient fill mode of one or two color. 0 - Two-Color gradient fill 1 - One-Color gradient fill
GFNAME (Stored: Not Saved) R2004 – 2005	1	BHATCH	Specifies the pattern of the gradient fill. 1 - Linear 2 - Cylindrical 3 - Inverted cylindrical 4 - Spherical 5 - Inverted Spherical 6 - Hemispherical 7 - Inverted Hemispherical 8 - Curved 9 - Inverted Curved
GFSHIFT (Stored: Not Saved) R2004 – 2005	0	BHATCH	Specifies whether the gradient fill is centered or shifted up and left. 0 - Centered 1 - Shifted up and left
GRIDMODE (Stored: In Drawing) R12 – 2005	0	DDRMODES	Grid display: 0 - Off 1 - On
GRIDUNIT (Stored: In Drawing) R12 – 2005	0.5000,0.5000	DDRMODES	Spacing of grid X,Y
GRIPBLOCK (Stored: In Registry) R12 – 2005	1	DDGRIPS	Grips are displayed in blocks: 0 - Insertion point only 1 - All entities within a block
GRIPCOLOR (Stored: In Registry) R12 – 2005	160	DDGRIPS	Color of unselected grips: 1 - Minimum (Red) 5 - Default (Blue) 255 - Maximum

Notes:

Variable	Default Value	Command(s) affected	Description
GRIPHOT (Stored: In Registry) R12 – 2005	1	DDGRIPS	Color of selected grips: 1 - Default (Red) 255 - Maximum
GRIPHOVER (Stored: In Registry) R2004 – 2005	3	DDGRIPS	Color that a grip changes to when the mouse pauses over the grip: 1 - Minimum (Red) 3 - Default (Green) 255 - Maximum
GRIPOBJLIMIT (Stored: In Registry) R2004 – 2005	20	DDGRIPS	The number of objects that will be used to control the display of grips. If more objects are selected than what the value is set to, grips will not be displayed. Valid range is 1 – 32,767.
GRIPS (Stored: In Registry) R12 – 2005	1	DDGRIPS	Grips are displayed when the user uses implied selection. 0 - Off 1 - On
GRIPSIZE (Stored: In Registry) R12 – 2005	10	DDGRIPS	Size of Grip box (pixel) 1 - Minimum 255 - Maximum
GRIPTIPS (Stored: In Registry) R2004 – 2005	1	DDGRIPS	Tooltip is displayed for custom Grips, when the mouse hovers over the grip: 0 - Tooltips are turned off 1 - Tooltips are turned on
HALOGAP (Stored: In Drawing) R2002 – 2005	0	HIDE SHADEMODE	Specifies a gap to be displayed where an object is hidden by another object. The value that is specified is a percentage of one unit and is independent of the zoom level. Specifies the distance to shorten a displayed haloed line at the point the object is hidden.

Notes:

Variable	Default Value	Command(s) affected	Description
HANDLES (Stored: In Drawing) (Read-only) R12 – 2005	1	*Environment*	Entities use handles (Ids) 0 - Off 1 - On
HIDEPRECISION (Not Documented) (Stored: Not Saved) R14 – 2005	0	HIDE	Controls the accuracy of hides and shades 0 - Single precision, less memory is used 1 - Double precision, more memory is used
HIDETEXT (Stored: In Drawing) R2002 – 2005	ON (or 1)	HIDE SHADEMODE *Display*	Toggles the behavior of text objects created by the TEXT, DTEXT, or MTEXT commands are processed during the HIDE command. Off - Text objects are not hidden during the processing of the Hide. On - Text objects are hidden during the processing of the Hide.
HIGHLIGHT (Stored: Not Saved) R12 – 2005	1	DDRMODES	Controls whether or not objects are highlighted on screen after being selected. 0 - Off 1 - On
HPANG (Stored: Not Saved) R12 – 2005	0	BHATCH	Current hatch angle
HPASSOC (Stored: In Registry) R2004 – 2005	1	BHATCH	Controls the associative property of hatch patterns or gradient fills: 0 - Hatch patterns and gradient fills are not associated to the boundaries 1 - Hatch patterns and gradient fills are associated to the boundaries and update when the boundaries are changed
HPBOUND (Stored: Not Saved) R13 - 2005	1	BHATCH	Controls Bhatch and Boundary object creation: 0 - Polyline 1 - Region

Notes:

Variable	Default Value	Command(s) affected	Description
HPDOUBLE (Stored: Not Saved) R12 - 2005	0	BHATCH	Hatch pattern doubling. Used with User defined patterns. 0 - Disables doubling 1 - Enables doubling
HPDRAWORDER (Stored: Not Saved) R2005	3	BHATCH	Controls the Draw Order of Hatches and Fills when they are created. 0 - None: No Draw Order is assigned 1 - Send to Back: Hatch or Fill is sent behind all other objects 2 - Bring to Front: Hatch or Fill is brought to the front of all other objects 3 - Send behind boundary: Hatch or Fill object is sent behind or below the Hatch boundary 4 - Bring to front of boundary: Hatch or Fill object is brought up in front of the Hatch boundary
HPGAPTOL (Stored: In Registry) R2005	0.000	BHATCH	Allows for a fuzz factor to be used when objects are not completely closed when generating the boundary to be hatched. Maximum size for the gap that is to be bridged with a range of 0 to 5000.
HPNAME (Stored: Not Saved) R12 – 2005	"ANSI31"	BHATCH	Current hatch pattern name
HPSCALE (Stored: Not Saved) R12 – 2005	1.0000	BHATCH	Current hatch pattern scale factor
HPSPACE (Stored: Not Saved) R12 – 2005	1.0000	BHATCH	Current value for spacing used for user-defined hatching

Notes:

Variable	Default Value	Command(s) affected	Description
HYPERLINKBASE (Stored: In Drawing) R2000 – 2005	""	HYPERLINK	Specifies the path used for relative hyperlink in the drawing.
IMAGEHLT (Stored: In Registry) R2000 – 2005	0	IMAGE	Controls how an image is hightlighte3d when it is selected. 0 - Raster image frame is only highlighted 1 - Raster image is highlighted
INDEXCTL (Stored: In Drawing) R14 – 2005	1	*Environment*	Controls whether layer and spatial indexes are created and saved in drawing files. 0 - No indexes are created 1 - Layer index is created 2 - Spatial index is created 3 - Layer & spatial indexes are created
INETLOCATION (Stored: In Registry) R14 – 2005	"http://www.autodesk. com/acaduser"	BROWSER	Default web site for Browser command
INSBASE (Stored: In Drawing) R12 – 2005	0.000,0.000,0.000	INSERT	Insertion point for drawing when inserted
INSNAME (Stored: Not Saved) R12 – 2005	""	INSERT	Last block inserted
INSUNITS (Stored: In Drawing) R2000 – 2005	1	AutoCAD DesignCenter (ADC)	Controls the units value that is used when an image or block is drag 'n dropped from the ADC. 0 - No units 1 - Inches 2 - Feet 3 - Miles 4 - Millimeters 5 - Centimeters 6 - Meters 7 - Kilometers 8 - Microinches 9 - Mils

Notes:

Variable	Default Value	Command(s) affected	Description
INSUNITS (cont.) (Stored: In Drawing) R2000 – 2005	1	AutoCAD DesignCenter (ADC)	Controls the units value that is used when an image or block is drag 'n dropped from the ADC. 10 - Yards 11 - Angstroms 12 - Nanometers 13 - Microns 14 - Decimeters 15 - Decameters 16 - Hectometers 17 - Gigameters 18 - Astronomical Units 19 - Light Years 20 - Parsecs
INSUNITSDEFSOURCE (Stored: In Registry) R2000 - 2005	1	AutoCAD DesignCenter (ADC)	Controls the content source unit value (0 - 20) See INSUNITS for list of value meanings.
INSUNITSDEFTARGET (Stored: In Registry) R2000 - 2005	1	AutoCAD DesignCenter (ADC)	Controls the target drawing unit value (0 - 20) See INSUNITS for list of value meanings.
INTERSECTIONCOLOR (Stored: In Drawing) R2004 – 2005	257	HLSETTINGS	Controls the color that is used for intersection Polylines. INTERSECTIONDISPLAY must be turned On in order for this value to matter. 0 - "ByBlock" 1 to 255 - Standard ACI colors 256 - "ByLayer" 257 - "ByEntity"
INTERSECTIONDISPLAY (Stored: In Drawing) R2004 – 2005	Off	HLSETTINGS	Controls the use of INTERSECTIONCOLOR for displaying intersection Polylines. Off - Display of intersection Polylines is not enabled On - Display of intersection Polylines is enabled
ISAVEBAK (Stored: In Registry) R13 – 2005	1	PREFERENCES	Controls the creation of a backup file (BAK): 0 - No BAK file is created 1 - BAK file is created

Notes:

Variable	Default Value	Command(s) affected	Description
ISAVEPERCENT (Stored: In Registry) R13 – 2005	50	PREFERENCES	Total amount of wasted space in a drawing file 0 - Minimum 100 - Maximum
ISOLINES (Stored: In Drawing) R13 – 2005	4	*Display*	Number of Isolines per surface on objects 0 - Minimum 4 - Default 2047 - Maximum
LASTANGLE (Stored: Not Saved) (Read-only) R12 – 2005	0	ARC	End angle of last arc drawn
LASTPOINT (Stored: Not Saved) R12 – 2005	0.000,0.000,0.000	*Most commands*	Last point picked in the drawing. This is the value that is used when the '@' symbol is used at the command line.
LASTPROMPT (Stored: Not Saved) (Read-only) R14 – 2005	""	*Most commands*	Last string echoed to the command line
LAYOUTREGENCTL (Stored: In Registry) R2000i – 2005	2	LAYOUT	Controls the display behavior of how a layout acts when switching to it. 0 - Each time you switching to a layout tab, a regeneration occurs 1 - Model and the last layout tab is cached into memory 2 - Initial display of the tab is the only time that a regeneration occurs and any other time that the tab is activated it is read from cache
LAZYLOAD (Undocumented) (Stored: In Registry) R13 – 2005	0	*Environment*	Controlled whether or not drawings would or should be demand loaded. 0 - Off 1 - On

Notes:

Variable	Default Value	Command(s) affected	Description
LENSLENGTH (Stored: In Drawing) (Read-only) R12 – 2005	50.0000	DVIEW	Perspective view lens length (mm)
LIMCHECK (Stored: In Drawing) R12 – 2005	0	*Most commands*	Controls creation of objects outside the drawing limits. 0 - Object can be created outside limits 1 - Object must be created inside limits
LIMMAX (Stored: In Drawing) R12 – 2005	12.0000,9.0000	LIMITS	Upper right drawing coordinate
LIMMIN (Stored: In Drawing) R12 – 2005	0.0000,0.0000	LIMITS	Lower left drawing coordinate
LISPINIT (Stored: In Registry) R14 – 2005	1	PREFERENCES	AutoLISP variables and function are preserved between drawings: 0 - Preserved between drawings 1 - Destroyed between drawings
LOCALE (Stored: Not Saved) (Read-only) R13 – 2005	"en" or "enu"	*Environment*	Language code of the current AutoCAD version that is running
LOCALROOTPREFIX (Stored: In Registry) R2004 – 2005	"C:\Documents and Settings\…"	*Environment*	Location that points to the Local Settings folder for AutoCAD on the machine or profile. "C:\Documents and Settings\<user name>\Local Settings\Application Data\Autodesk\AutoCAD 2005\R16.1\enu\"
LOGFILEMODE (Stored: In Registry) R14 – 2005	0	*Environment*	Log file is maintained: 0 - Not maintained 1 - Maintained

Notes:

Variable	Default Value	Command(s) affected	Description
LOGFILENAME (Stored: In Drawing) R14 – 2005	"acad.log"	*Environment*	Log file name and path
LOGFILEPATH (Stored: In Registry) R2000 – 2005	"C:\Documents and Settings\…"	*Environment*	Log file path
LOGINNAME (Stored: Not Saved) (Read-only) R12 – 2005	""	*Environment*	Displays the name configured with AutoCAD. Maximum of 30 characters in length.
LONGFNAME (Obsolete – R14 & up) (Stored: In Config) (Read-only) R13	1	*Environment*	Indicates if long file name support has been enabled or disabled. 0 - Disables long file name support 1 - Enables long file name support
LTSCALE (Stored: In Drawing) R12 – 2005	1.0000	*Display*	Current Linetype scale
LUNITS (Stored: In Drawing) R12 – 2005	2	DDUNITS	Linear Units mode: 1 - Scientific 2 - Decimal 3 - Engineering 4 - Architectural 5 - Fractional
LUPREC (Stored: In Drawing) R12 – 2005	4	DDUNITS	Decimal places represented in Linear Units

Notes:

Variable	Default Value	Command(s) affected	Description
LWDEFAULT (Stored: In Registry) R2000 - 2005	25	LWEIGHT	Sets the current default line weight, line weights must be expressed in hundredths of millimeters. Valid line weights are: 0, 5, 9, 13, 15, 18, 20, 25, 30, 35, 40, 50, 53, 60, 70, 80, 90, 100, 106, 120, 140, 158, 200, and 211
LWDISPLAY (Stored: In Drawing) R2000 - 2005	Off (or 0)	LWEIGHT	Controls the display of line weights with each tab in the drawing, setting is displayed with each tab in the drawing. 0 - Line weight display is turned off 1 - Line weight display is turned off
LWUNITS (Stored: In Registry) R2000 - 2005	1	LWEIGHT	Controls whether or not line weights are displayed in inches or millimeters 0 - Inches 1 - Millimeters
MACROTRACE (Stored: Not Saved) R12 – 2005	0	*Environment*	A debugging tool for DIESEL expressions. 0 - MACROTRACE is disabled. 1 - Displays an evaluation of all DIESEL expressions in the command line.
MAXACTVP (Stored: In Drawing) R12 - 2005	64	MVIEW	Maximum number of viewports that can be regenerated at the same time 0 - Minimum 32767 - Maximum
MAXOBJMEM (Not documented) (Stored: In Config) R13 - 2005	0	*Environment*	Indicated how much physical memory would be used before disk paging occurred. 0 equaled all memory would be allowed. This was used under the older memory paging system for R13 and is no longer used after R13.

Notes:

Variable	Default Value	Command(s) affected	Description
MAXSORT (Stored: In Registry) R12 – 2005	1000	*Environment*	Maximum number of symbols/files sorted in listing commands. If number exceeds setting nothing is sorted. 0 - Minimum 32767 - Maximum
MBUTTONPAN (Stored: In Registry) R2000 – 2005	1	*Environment*	Controls how the wheel or the middle mouse button responds. 0 - Acts upon what is defined in the ACAD.MNU file 1 - Starts panning with holding down the mouse button or wheel
MEASUREINIT (Stored: In Registry) R14 – 2005	0	*Environment*	Sets drawing units as English or metric. 0 - English, ANSI Hatch and Linetypes are used 1 - Metric, ISO Hatch and Linetypes are used Note: See also MEASUREMENT
MEASUREMENT (Stored: In Drawing) R14 – 2005	0	*Environment*	Sets drawing units as English or metric. 0 - English, ANSI Hatch and Linetypes are used 1 - Metric, ISO Hatch and Linetypes are used
MENUCTL (Stored: In Registry) R12 - 2005	1	*Environment*	Controls the page switching of the menu during use of the Screen Menu 0 - Doesn't switch pages 1 - Does switch pages
MENUECHO (Stored: Not Saved) R12 - 2005	0	*Environment*	Menu echo/prompt controls 0 - Normal 1 - Suppresses menu echo 2 - Suppresses printing of system prompts 4 - Disables ^P for menu echo 8 - Displays input/output strings
MENUNAME (Stored: In Registry) (Read-only) R12 – 2005	"...\support\acad"	MENU	Current menu that is loaded

Notes:

Variable	Default Value	Command(s) affected	Description
MILLISECS (Undocumented) (Stored: Not Saved) (Read-only) R2000i – 2005	7758696	*Environment*	Number returned from the Win32 GetTickCount API. It's the number of millisecs since the system was booted.
MIRRTEXT (Stored: In Drawing) R12 - 2005	1	MIRROR	Disables mirroring of text 0 - Mirror text 1 - Retain text orientation
MODEMACRO (Stored: Not Saved) R12 – 2005	""	*Environment*	Used to help debug Diesel programming and display values in the status bar
MSOLESCALE (Stored: In Drawing) R2005	0.0000	INSERTOBJ	Controls the size of an OLE object that has text when it is pasted into Model Space. This only affects the initial size, and if the value is changed has no affect on objects already in the drawing. >0 - Positive number scales by value 0 - DIMSCALE value is used for scaling
MTEXTED (Stored: In Registry) R13 – 2005	"Internal"	MTEXT	Name of the editor for Mtext objects
MTEXTFIXED (Stored: In Registry) R2004 – 2005	0	MTEXT	Determines how the Mtext Editor is presented to the user. 0 - Mtext Editor works in-place based on the text height and size on screen. If text is too large or small the in-place editing will not be used. 1 - Mtext Editor will not use in-place editing and will be displayed at the last used size and location.

Notes:

Variable	Default Value	Command(s) affected	Description
MTJIGSTRING (Stored: In Registry) R2004 – 2005	"abc"	MTEXT	Displays a preview string when creating a MTEXT object. Preview string shows what the text will look like with the current font and text size. A Max of ten characters is allowed in this field.
MYDOCUMENTSPREFIX (Stored: In Registry) R2004 – 2005	"C:\Documents and…"	*Environment*	Location that points to the My Documents folder on the machine or profile. "C:\Documents and Settings\<user name>\My Documents"
NFWSTATE (Undocumented) (Stored: In Registry) (Read-only) R2005	1	*Environment*	Retrieves the value that determines whether or not New Features Workshop is available from the Help pull-down. 0 - New Features Workshop is disabled 1 - New Features Workshop is enabled
NODENAME (Stored: In Registry) R2000 – 2005	"ac$"	*Environment*	File extension for temporary files.
NOMUTT (Stored: Not Saved) R2000 – 2005	0	*Environment*	Suppresses muttering of messages displayed by AutoCAD. 0 - Resumes normal message muttering 1 - Suppress muttering indefinitely
OBSCUREDCOLOR (Stored: In Drawing) R2002 – 2005	257	HIDE SHADEMODE HLSETTINGS	Specifies the color of obscured lines. An obscured line is a hidden line made visible by changing its color and Linetype and is visible only when the HIDE or SHADEMODE commands are used and OBSCUREDLTYPE is turned ON. 0 - "ByBlock" 1 to 255 - Standard ACI colors 256 - "ByLayer" 257 - "ByEntity"

Notes:

Variable	Default Value	Command(s) affected	Description
OBSCUREDLTYPE (Stored: In Drawing) R2002 – 2005	0	HIDE SHADEMODE HLSETTINGS	Specifies the Linetype of obscured lines. Obscured Linetypes are not like standard Linetypes in AutoCAD because they are independent of zoom level. 0 - Off 1 - Solid 2 - Dashed 3 - Dotted 4 - Short Dash 5 - Medium Dash 6 - Long Dash 7 - Double Short Dash 8 - Double Medium Dash 9 - Double Long Dash 10 - Medium Long Dash 11 - Sparse Dot
OFFSETDIST (Stored: Not Saved) R12 – 2005	-1.0000	OFFSET	Last distance used with the offset command
OFFSETGAPTYPE (Stored: In Registry) R2000 - 2005	0	OFFSET	Controls how the gap of a Polyline when offset is acted upon. 0 - Extends the segments to fill the gap 1 - Gap is filled with a filleted arc 2 - Gap is filled with a chamfered line
OLEFRAME (Stored: In Drawing) R2005	2	*Display* PLOT -PLOT PUBLISH	Controls the display of the frame around an OLE object. 0 - No frame is displayed around an OLE object and is not plotted 1 - Frame is displayed around OLE object and is plotted 2 - Frame is displayed around OLE object and is not plotted

Notes:

Variable	Default Value	Command(s) affected	Description
OLEHIDE (Stored: In Registry) R14 – 2005	0	*Display*	Controls the display of OLE objects in AutoCAD for both display on screen and plotting. 0 - All OLE objects are visible 1 - OLE objects are visible in paper space 2 - OLE objects are visible in model space 3 - No OLE objects are visible
OLEQUALITY (Stored: In Registry) R2000 – 2005	3	*Display*	Controls the default plot quality of an OLE object that has been embedded into AutoCAD. Prior to AutoCAD 2005 0 - Line art quality, spreadsheet 1 - Text quality, word document 2 - Graphics quality, pie chart 3 - Photograph quality 4 - High quality photograph AutoCAD 2005 0 - Monochrome 1 - Low quality graphics 2 - High quality graphics 3 - Automatically select
OLESTARTUP (Stored: In Drawing) R2000 – 2005	0	*Display*	Specifies whether or not the OLE embedded source application is launched when plotting. 0 - Application is not launched when plotting 1 - Application is launched when plotting
OPMSTATE (Undocumented) (Stored: Not Saved) (Read-only) R2000i - 2005	0	PROPERTIES PROPERTIESCLOSE	Holds the display state of Object Properties. 0 - Not displayed in the environment 1 - Currently displayed in the environment Added to R2004 and up 2 - Currently displayed in the environment, but Auto-Hide is enabled

Notes:

Variable	Default Value	Command(s) affected	Description
ORTHOMODE (Stored: In Drawing) R12 - 2005	0	*Environment*	Current Ortho mode setting 0 - Off 1 - On

OSMODE (Stored: In Registry) R12 - 2005	4133	*All drawing and modifying commands*	Object Snap mode:
			   0 - NONe
			   1 - ENDpoint
			   2 - MIDpoint
			   4 - CENter
			   8 - NODe
			  16 - QUAdrant
			  32 - INTersection
			  64 - INSertion
			 128 - PERpendicular
			 256 - TANgent
			 512 - NEArest
			1024 - QUIck
			2048 - APParent Intersection
			
			Added to R2000 and up
			4096 - EXTension
			8192 - PARallel

OSNAPCOORD (Stored: In Registry) R13 - 2005	0	*Environment*	Determines if coordinates entered on the command line override running object snaps. 0 - Running object snap settings override keyboard coordinate entry 1 - Keyboard entry overrides object snap settings 2 - Keyboard entry overrides object snap settings except in scripts
OSNAPHATCH (Stored: In Registry) R2005	0	*Environment*	Determines whether Object Snaps are allowed to act upon Hatch objects or not. 0 - Ignore Hatch objects when selecting points with Object Snaps turned on 1 - Hatch objects are not ignored when using Object Snaps and is the legacy behavior of AutoCAD 2004 and prior

Notes:

Variable	Default Value	Command(s) affected	Description
OSNAPNODELEGACY (Undocumented) (Stored: In Registry) R2005	0	*Environment*	Controls whether or not the Node object snap is enabled at the grip points for a Mtext object. 0 - Node snap is enabled at the grip points 1 - Node snap is disabled at the grip points and is the legacy behavior of AutoCAD 2002 and prior
PALETTEOPAQUE (Stored: In Registry) R2004 - 2005	0	*Environment*	Controls whether or not palettes use transparency. 0 - Transparency is enabled by the user 1 - Transparency is disabled by the user 2 - Transparency is enabled by the user, but is unavailable due to hardware acceleration being active or transparency unavailable due to OS limitation 3 - Transparency is disabled by the user, but is unavailable due to hardware acceleration being active or transparency unavailable due to OS limitation
PAPERUPDATE (Stored: In Registry) R2000 – 2005	0	PLOT	Controls the display of a warning message box when paper size is not supported by the plotter. 0 - Warning box is displayed if the paper size specified in the layout is not supported by the plotter 1 - Sets paper size to the paper size specified in the plotter configuration file
PDMODE (Stored: In Drawing) R12 – 2005	0	DDPTYPE	Point display mode: 0 - Dot (minimum) 1 - No Display 2 - + Symbol 3 - X symbol 4 - Short Line / 100 (Maximum) Add 32 to each of the above and get a different symbol.

Notes:

Variable	Default Value	Command(s) affected	Description

PDSIZE (Stored: In Drawing) R12 – 2005	0.0000	DDPTYPE	Controls the display size of Points.
			  0 - Point 5% of the graphics area height
			  >0 - Absolute size
			  <0 - Percentage of the viewport size

PEDITACCEPT (Stored: In Registry) R2004 – 2005	0	PEDIT	Controls whether or not the prompt "Do you want to turn it into one? <Y>" is active in the PEDIT command. 0 - Prompt is disabled 1 - Prompt is enabled
PELLIPSE (Stored: In Drawing) R13 – 2005	0	ELLIPSE	Ellipse creation mode: 0 - True Ellipse 1 - Polyline
PERIMETER (Stored: Not Saved) (Read-only) R12 – 2005	0.0000	AREA, LIST, DBLIST	Perimeter calculated by Area, List and Dblist
PFACEVMAX (Stored: Not Saved) (Read-only) R12 – 2005	4	PFACE	Maximum of vertices per face.
PHANDLE (Stored: Not Saved) (Undocumented) R12 – 2005	0	*Unknown*	Gets the current palette handle. 0 equates to True Color. Valid range is 0 to 4294967295.
PICKADD (Stored: In Registry) R12 - 2005	1	*All modifying commands*	Controls additions to selections: 0 - Creates a new selection set with each new selection. Shift key must be held down to add objects 1 - Adds objects to a selection without holding down the Shift key. Hold the Shift key to remove objects

Notes:

Variable	Default Value	Command(s) affected	Description
PICKAUTO (Stored: In Registry) R12 – 2005	1	*All modifying commands*	Controls the use of automatic selection through a window or crossing at all "Select objects:" prompts. 0 - Disables PICKAUTO 1 - Enables windows and crossings at select prompts
PICKBOX (Stored: In Registry) R12 – 2005	3	DDSELECT	Object selection target (pixels). Valid range is 0 – 50.
PICKDRAG (Stored: In Registry) R12 – 2005	0	*All modifying commands*	Controls the drawing selection window 0 - Two clicks to create selection 1 - One click and then drag
PICKFIRST (Stored: In Registry) R12 – 2005	1	*All modifying commands*	Allows you to select objects before starting a command and then performing an edit/inquiry command 0 - Disabled 1 - Enabled
PICKSTYLE (Stored: In Registry) R13 – 2005	1	DDGROUP and HATCH	Controls group selection and associative selection 0 - No group selection or associative hatch selection 1 - Group selection 2 - Associative hatch selection 3 - Group selection and associative hatch selection
PLATFORM (Stored: Not Saved) (Read-only) R12 – 2005	"Microsoft Windows ..."	*Environment*	Current version of Operating System on the computer

Notes:

Variable	Default Value	Command(s) affected	Description
PLINEGEN (Stored: In Drawing) R12 - 2005	0	POLYLINE	Determines how 2D Polylines generate a Linetype. 0 - Polylines are generated to start and end with a dash at each vertex 1 - Generates the Linetype in a continuous pattern around the vertices of the Polyline
PLINETYPE (Stored: In Registry) R14 – 2005	1	POLYLINE	Controls if old Polylines are converted to the new format and if new Polylines are created in the new format. 0 - When opening older drawings Polylines are not converted; PLINE command creates old style Polylines 1 - When opening older drawings Polylines are not converted; PLINE command creates new Light-weight Polylines 2 - When opening older drawings Polylines are converted; PLINE command creates new Light-weight Polylines
PLINEWID (Stored: In Drawing) R12 – 2005	0.0000	POLYLINE	Last width used for Polylines
PLOTID (Stored: In Registry) (Obsolete – R2004 & up) R12 – 2002	""	PLOT	Current plotter that is used for the default the next time you plot.
PLOTOFFSET (Stored: In Registry) R2005	0	PLOT PUBLISH	Controls whether the plot offset is relative to the printable area or the edge. 0 - Plot offset is set relative to the printable area. 1 - Plot offset is set relative to the edge of the paper.

Notes:

Variable	Default Value	Command(s) affected	Description
PLOTROTMODE (Stored: In Registry) R13 – 2005	0	PLOT PUBLISH	Current orientation of plots. 0 - The effective plotting area is rotated so the corner with the Rotation icon aligns with the paper at the lower-left for 0, upper-left for 90, upper-right for 180, and lower-right for 270. 1 - The lower-left corner of the effective plotting area is aligned with the lower-left corner of the paper. 2 - Works the same as 0 value, except the X and Y origin offsets are calculated relative to the rotated origin position.
PLOTTER (Stored: In Registry) (Obsolete – R2004 & up) R12 – 2002	0	PLOT	Default plotter, based on the plotter number assigned to the plotter name. Value of 0 indicates the first plotter and can go all the way up to 28. Maximum of 29 plotters can be setup inside of AutoCAD.
PLQUIET (Stored: In Registry) R2000 – 2005	0	BATCH PLOTTING SCRIPT	Controls whether or not AutoCAD will post optional dialogs and nonfactual errors 0 - Displays plot dialog boxes and nonfactual errors 1 - Logs nonfactual errors and doesn't display plot related dialog boxes
POLARADDANG (Stored: In Registry) R2000 – 2005	""	POLAR SNAP	Contains a list of user-defined snap angles. A list can be created by supplying a list of 25 different angles, and each value separated by a semi-colon (;).
POLARANG (Stored: In Registry) R2000 – 2005	90	POLAR SNAP	Controls the default Polar Snap Angle. Values can be: 90, 45, 30, 22.8, 18, 15, 10 and 5.
POLARDIST (Stored: In Registry) R2000 – 2005	0.0000	POLAR SNAP	Controls the snap increment when SNAPSTYL is set to a value of 1.

Notes:

Variable	Default Value	Command(s) affected	Description
POLARMODE (Stored: In Registry) R2000 – 2005	0	POLAR SNAP	Controls the setting for object snap tracking and polar snap. Polar angle of measurement: 0 - Polar angles are measured from the current UCS 1 - Polar angles are measured from selected objects Object snap tracking: 0 - Track orthogonally only 2 - Utilize polar tracking settings in object snap tracking mode Use additionally supplied polar angles: 0 - No 4 - Yes Acquire object snap tracking points: 0 - Acquire automatically 8 - SHIFT must be press to acquire point
POLYSIDES (Stored: Not Saved) R12 – 2005	4	POLYGON	Current number of sides that will be used for the Polygon command.
POPUPS (Stored: Not Saved) (Read-only) R12 – 2005	1	*Environment*	Displays the status of the currently configured display driver. 0 - Display does not support dialog boxes, the menu bar, pull-down menus, and icon menus 1 - Display supports all features
PRODUCT (Stored: Not Saved) R14 – 2005	"AutoCAD"	*Environment*	Returns the product name.
PROGRAM (Stored: Not Saved) R14 – 2005	"acad"	*Environment*	Returns the program or executable name.

Notes:

Variable	Default Value	Command(s) affected	Description
PROJECTNAME (Stored: In Drawing) R14 – 2005	""	*Drawing*	Project name is assigned to the current drawing. Project Names help to keep track of Xrefs and images easier, by assigning additional support paths specific to the project only.
PROJMODE (Stored: In Registry) R13 – 2005	1	TRIM and EXTEND	Projection mode for Trim or Extend operations 0 - True 3D mode (no projection) 1 - Project to the XY plane of the current UCS 2 - Project to the current view plane
PROXYGRAPHICS (Stored: In Drawing) R14 – 2005	1	OPEN	Determines if images of proxy objects are saved in the drawing. 0 - Image is not saved w/ drawing 1 - Image is saved w/ drawing
PROXYNOTICE (Stored: In Registry) R14 – 2005	1	OPEN	Displays a notice when a proxy is present as you open a drawing and the application isn't present. 0 - Proxy warning is not displayed 1 - Proxy warning is displayed
PROXYSHOW (Stored: In Registry) R14 – 2005	1	OPEN	Controls the display of proxy objects in a drawing. 0 - Proxy objects are not displayed 1 - All proxy images show graphically 2 - Bounding boxes shown to represent proxy objects
PROXYWEBSEARCH (Stored: In Registry) R2000i – 2005	1	OPTIONS *Object Enablers*	Specifies how AutoCAD goes about checking for Object Enablers. 0 - Prevents AutoCAD from checking for Object Enablers 1 - AutoCAD will only look for Object Enablers at the Autodesk Point A portal web site. Live connection to the internet must be established. 2 - Specifies the number of times AutoCAD will try to check for the Object Enabler.

Notes:

Variable	Default Value	Command(s) affected	Description
PSLTSCALE (Stored: In Drawing) R12 – 2005	1	MVIEW	Current paper space Linetype scale. 0 - Use model space scale factor 1 - Use viewport scale factor
PSPROLOG (Stored: In Registry) R12 – 2005	""	PSOUT	Assigns a name for a prolog section to be read from the acad.psf file when you are using PSOUT command.
PSQUALITY (Stored: In Registry) R12 – 2005	75	*Drawing*	Rendering quality of PostScript images and if they are drawn filled or outlines. 0 - Turns off PostScript image generation <0 - Number of pixels per AutoCAD drawing unit for the PostScript resolution >0 - Number of pixels per drawing unit but uses the absolute value; causes AutoCAD to show the PostScript as outlines and does not fill them
PSTYLEMODE (Stored: In Drawing) R2000 – 2005	1	PLOT	Controls if the current drawing is in Color-Dependent or Plot Style Name mode. 0 - Using Named Plot Style Tables 1 - Using Color-Dependent Plot Tables
PSTYLEPOLICY (Stored: In Registry) R2000 – 2005	1	PLOT	Controls whether an object's plot style is associated with its color property. The new value affects only newly created drawings and pre-AutoCAD 2000 drawings. 0 - No association is made between color and plot style. The plot style for new objects is set to the value in DEFPLSTYLE, and new layers are set to the value in DEFLPLSTYLE. 1 - An object's plot style is associated with its color.
PSVPSCALE (Stored: In Drawing) R2000 - 2005	0.00000000	*Display*	Controls the scale factor of views that are for newly created viewports. Value must be expressed as a positive number.

Notes:

Variable	Default Value	Command(s) affected	Description
PUCSBASE (Stored: In Drawing) R2000 – 2005	""	*Display*	Sores the UCS name for Paper space only.

QAFLAGS (Undocumented) (Stored: In Registry) R12 – 2005	0	*All commands and AutoLISP*
		
		1) QAFLAGS;1;^C
		
		2) (setvar "qaflags" 1) *(command "explode" "all")* *(setvar "qaflags" 0)*
		
		4) (alert "hello")
		
		512) Bind Xref as Insert type
			An internal system variable that is used by Autodesk. It stands for Quality Assurance Flags. Below are some of the values that I have been able to test and round up. There are more, but no one really knows them all because each developer uses this variable differently.
			
			  0 - Commands work like normal
			  1 - ^C in menu cancels grips in they are active, simulating the ESCape key, also allows the select option All to work for explode when used in AutoLISP.
			  2 - No pauses during the List command
			  4 - No Alert boxes displayed
			  8 - Unknown
			 16 - Unknown
			 32 - Unknown
			 64 - Unknown
			128 - Allows for the use of Noun/Verb and Grips via. The AutoLISP command function (e.g., emulate user picks while AutoCAD is at the Command: prompt)
			256 - Unknown
			512 - Sets Bind type to insert in AutoCAD R14

QAUCSLOCK (Undocumented) (Stored: Not Saved) R2000i – 2005	0	*Environment*	Has something to do with locking/disabling transparent UCS changes. Is linked to the testing that was done in AutoCAD 2000i (Banff). 0 - Default value 1 - Unknown
QTEXTMODE (Stored: In Drawing) R12 – 2005	0	*2D/Display*	Quick text mode. 0 - Off 1 - On

Notes:

Variable	Default Value	Command(s) affected	Description
QUEUEDREGENMAX (Stored: Not Saved) R2004 – 2005	2147483647	*Display*	Description not available.
RASTERDPI (Stored: In Registry) R2005	300	*Display*	Controls paper size and plot scale when changing between output devices from dimensional (inches or millimeters) to dimensionless (pixel) and vice versa. Valid range is 100 to 32,767.
RASTERPREVIEW (Stored: In Registry) R13 - 2005	1	*Drawing*	Determines whether or not preview images are saved with a drawing. 0 - No preview image is saved 1 - Image is saved with drawing
REFEDITNAME (Stored: Not Saved) R2000 – 2005	""	REFEDIT	Indicates if a drawing is currently being edited from a state of reference, also holds the file name that is being edited.
REGENMODE (Stored: In Drawing) R12 – R2005	1	*Display*	Drawing regeneration mode. Deals with the command Regenauto. 0 - Regen with each new view 1 - Regen only when required
RE-INIT (Stored: Not Saved) R13 – 2005	0	*Environment*	Reinitializes the digitizer, digitizer port, and acad.pgp file. 0 - Nothing needs to be reinitialized 1 - Digitizer I/O port reinitialization 2 - Plotter port reinitialization 4 - Digitizer reinitialization 8 - Display reinitialization 16 - PGP file reinitialization (reload)
RIASPECT (Stored: Not Saved) (Obsolete – R14 & up) R12 - R13	0.0000	*Display*	Changes the raster image aspect ratio.

Notes:

Variable	Default Value	Command(s) affected	Description
RIBACKG (Stored: Not Saved) (Obsolete – R14 & up) R12 - R13	0	*Display*	Changes the background color number.
RIEDGE (Stored: Not Saved) (Obsolete – R14 & up) R12 - R13	0	*Display*	Controls the edge detection feature for importing an image. 0 - Disables edge detection 1 to 255 - Sets the threshold for RIEDGE detection
RIGAMUT (Stored: Not Saved) (Obsolete – R14 & up) R12 - R13	256	*Display*	Used to control the number of colors GIFIN, PCXIN, and TIFFIN use when they import a color image
RIGREY (Stored: Not Saved) (Obsolete – R14 & up) R12 - R13	0	*Display*	Used to import an image as a gray-scale image. 0 - Gray-scale image importing is disabled. >0 - Gray-scale is used to convert the image as it's imported.
RITHRESH (Stored: Not Saved) (Obsolete – R14 & up) R12 - R13	0	*Display*	Used to control the importing of an image based on brightness. 0 - RITHRESH is turned off. >0 - RITHRESH is turned on and a brightness filter is used to import the image into the drawing.

Notes:

Variable	Default Value	Command(s) affected	Description
REMEMBERFOLDERS (Stored: In Registry) R2000i - 2005	1	*Environment*	Controls the path that is used for Look In or Save In as the default. 0 - Uses the Start In value of the shortcut icon on the desktop. This setting is used to restore the behavior of AutoCAD 2000 and previous releases. 1 - Uses the last path that was called up from each particular dialog box. The Start In value is ignored for AutoCAD 2000i after the session has been started and changes have been made under each dialog box. The values are only held while the session is active.
REPORTERROR (Stored: In Registry) R2004 - 2005	1	*Environment*	Controls whether or not an error report is sent to Autodesk when a fatal error occurs or AutoCAD closes unexpectedly. 0 - Disables error report system 1 - Enables error report system
ROAMABLEROOTPREFIX (Stored: In Registry) R2004 - 2005	"C:\Documents and…"	*Environment*	Location that points to the Application Data folder for AutoCAD is on the machine or profile. "C:\Documents and Settings\user name\Application Data\Autodesk\AutoCAD 2005\R16.1\enu\"
RTDISPLAY (Stored: In Registry) R14 - 2005	1	RTZOOM RTPAN	Display raster images during real-time zoom or pan. 0 - Display raster image and OLE content 1 - Displays outline only
SAVEFILE (Stored: In Registry) (Read-only) R12 – 2005	"Auto.sv$"	*Environment*	Autosave file name

Notes:

Variable	Default Value	Command(s) affected	Description
SAVEFILEPATH (Stored: In Registry) (Read-only) R2000 – 2005	"C:\Documents and Settings\...."	*Environment*	Autosave file path
SAVENAME (Stored: Not Saved) (Read-only) R12 – 2005	""	*Environment*	File name w/ directory path of the current drawing once you save it.
SAVEIMAGES (Stored: In Drawing) (Obsolete – R14 & up) R13	0	*Drawing*	Used to control writing graphics metafiles for application-defined objects, solids, bodies, and regions. 0 - All data except, solids, bodies and regions are saved. 1 - Always saves images 2 - Never saves images
SAVETIME (Stored: In Registry) R12 – 2005	10	*Environment*	Current automatic save interval. Temp file of drawing is saved to the name supplied in the SAVEFILE variable. 0 - Automatic save is disabled >0 - Interval in which the automatic save will occur if a save is not preformed before then.
SCREENBOXES (Stored: Not Saved) (Read-only) R12 – 2005	0	*Display*	Contains the value of number of boxes displayed in the screen menu. If the screen menu is turned off the value is zero.
SCREENMODE (Stored: Not Saved) (Read-only) R12 – 2005	3	*Display*	Stores the graphics/text state of the AutoCAD display. 0 - Text screen is displayed 1 - Graphics area is displayed 2 - Dual-screen display is configured

Notes:

Variable	Default Value	Command(s) affected	Description
SCREENSIZE (Stored: Not Saved) (Read-only) R12 – 2005	701.0000,373.0000	*Environment*	Current viewport size (pixels)
SDI (Stored: In Registry) R2000 - 2005	0	*Environment*	Controls whether or not AutoCAD supports Single or Multiple Document Environment. 0 - Multiple document environment support 1 - Single document environment support 2 - Multiple document environment is disabled because the user loaded an application that doesn't support multiple document interface. 3 - User disabled multiple document environment and the user also loaded an application that doesn't support multiple document interface.
SHADEDGE (Stored: In Drawing) R12 – 2005	3	SHADE	Current shade style. 0 - Shaded faces only 1 - Shaded faces and edge background color 2 - Faces not filled in, and edges in object color 3 - Faces in object color, and edges in background color
SHADEDIF (Stored: In Drawing) R12 – 2005	70	SHADE	Percent of ambient light by diffuse 0 - Minimum 70 - Default 100 - Maximum

Notes:

Variable	Default Value	Command(s) affected	Description
SHORTCUTMENU (Stored: In Registry) R2000 – 2005	11	*Environment*	Controls the status of the DEFAULT, EDIT, and COMMAND shortcut menus should be enabled or disabled. 0 - Disables DEFAULT, EDIT and COMMAND mode 1 - Enables DEFAULT mode 2 - Enables EDIT mode 4 - Enables COMMAND mode whenever a command is active 8 - Enables COMMAND mode whenever options for a command is available at the command line. Added to R2004 and up 16 - Enables time delay right click feature
SHPNAME (Stored: Not Saved) R12 – 2005	""	SHAPE	Current shape name
SIGWARN (Stored: In Registry) R2004 – 2005	1	OPEN XREF INSERT	Controls whether a message is displayed notifying the user that a drawing with a digital signature is being opened. 0 - No warning message is displayed 1 - Warning message is displayed
SKETCHINC (Stored: In Drawing) R12 – 2005	0.1000	SKETCH	Increment of record for Sketch command
SKPOLY (Stored: In Drawing) R12 – 2005	0	SKETCH	Current mode of line generation for the Sketch command. 0 - Lines 1 - Polyline
SNAPANG (Stored: In Drawing) R12 – 2005	0	*All drawing and modifying commands* - DDRMODES	Rotation angle for Snap/Grid.

Notes:

Variable	Default Value	Command(s) affected	Description
SNAPBASE (Stored: In Drawing) R12 – 2005	0.0000,0.0000	*All drawing and modifying commands* - DDRMODES	Origin for Snap/Grid.
SNAPISOPAIR (Stored: In Drawing) R12 – 2005	0	*All drawing and modifying commands* - DDRMODES	Current isometric drawing plane. 0 - Left Isometric 1 - Top Isometric 2 - Right Isometric
SNAPMODE (Stored: In Drawing) R12 – 2005	0	*All drawing and modifying commands* - DDRMODES	Current snap mode. 0 - Off 1 - On
SNAPSTYL (Stored: In Drawing) R12 – 2005	0	*All drawing and modifying commands* - DDRMODES	Style of snap for current viewport. 0 - Standard 1 - Isometric
SNAPTYPE (Stored: In Registry) R2000i – 2005	0	*All drawing and modifying commands*	Controls the type of snap mode for the current viewport. 0 - Grid or normal snap 1 - Polar Snap, snaps along polar angle increments and polar/object snap tracking.
SNAPUNIT (Stored: In Drawing) R12 – 2005	0.5000,0.5000	*All drawing and modifying commands* - DDRMODES	Spacing for snapping in the current viewport
SOLIDCHECK (Stored: Not Saved) R2000 – 2005	1	*Environment*	Controls whether or not solid checking is turned on or off for the current AutoCAD session. 0 - Solid verification is turned Off 1 - Solid verification is turned On

Notes:

Variable	Default Value	Command(s) affected	Description
SORTENTS (Stored: In Drawing) R12 – 2005	96	DDSELECT	Entity display sort order. 0 - Off 1 - Object selection 2 - Object snap 4 - Redraws 8 - Mslide slide creation 16 - Regens 32 - Plotting 64 - PostScript output
SPACESWITCH (Stored: Not Saved) R2000i – 2005	1	*Environment*	Controls whether or not the user is allowed to double click on a Viewport in a layout and enter Model Space. 0 - Disables the double clicking on a Viewport and doesn't allow the user to enter Model Space 1 - Allows the user to double click on a Viewport and enter Model Space
SPLFRAME (Stored: In Drawing) R12 – 2005	0	*Display* - EDGE	Display for Mesh and Polylines 0 - Off 1 - On
SPLINESEGS (Stored: In Drawing) R12 – 2005	8	SPLINE	Number of segments to be generated with each Spline patch
SPLINETYPE (Stored: In Drawing) R12 – 2005	6	PEDIT	Type of Spline generated with PEDIT command. 5 - Quadratic B-Spline 6 - Cubic B-Spline
SSFOUND (Stored: Not Saved) R2005	""	SHEETSET	Holds the Sheet Set path and name that is associated with the drawing file if it is found.

Notes:

Variable	Default Value	Command(s) affected	Description
SSLOCATE (Stored: User Settings) R2005	1	SHEETSET	Controls whether or not AutoCAD will go through and attempt to locate a drawing sheet set for the drawing that is being opened. 0 - Don't open the sheet set that is associated with the drawing 1 - Open the sheet set that is associated to the drawing that is being opened
SSMAUTOOPEN (Stored: User Settings) R2005	1	SHEETSET	Controls whether or not AutoCAD will display the Sheet Set Manager when a drawing is opened that is associated with a Sheet Set. 0 - Sheet Set Manager is not opened automatically 1 - Sheet Set Manager is automatically opened
SSMSTATE (Stored: Not Saved) R2005	0	SHEETSET SHEETSETHIDE	Holds the display state of the Sheet Set Manager. 0 - Sheet Set Manager is not active 1 - Sheet Set Manager is active
STANDARDSVIOLATIO N (Stored: In Registry) R2004 – 2005	2	STANDARDS CHECKSTANDARDS	Controls the behavior of the Standards violation notification system. 0 - Notifications are disabled 1 - A message box is displayed when a violation to the standards occurs 2 - Icon is displayed in the drawing status bar area notifying of a drawing that has been opened or object modified that doesn't meet standards
STARTUP (Stored: In Registry) R2004 – 2005	0	NEW	Controls the display of the Create New Drawing dialog box. 0 - Displays the Select Template File dialog box or uses the default template that is specified under the File section of the Options dialog. 1 - Displays the Startup and Create New Drawing dialog box.

Notes:

Variable	Default Value	Command(s) affected	Description
STARTUPTODAY (Stored: In Registry) (Obsolete – R2004 & up) R2000i - 2002	1	TODAY NEW,OPEN	Controls whether or not the Today window is used or the Traditional startup dialog box. 0 - Displays Traditional startup dialog box 1 - Displays Today window
SURFTAB1 (Stored: In Drawing) R12 – 2005	6	SURTAB	Number of faces generated about a given path with Rulesurf or Tabsurf commands.
SURFTAB2 (Stored: In Drawing) R12 – 2005	6	SURTAB	Density of mesh in the N direction with Revsurf and Edgesurf commands.
SURFTYPE (Stored: In Drawing) R12 – 2005	6	PEDIT	Type of surface-fitting performed by PEDIT Smooth. 5 - Quadratic B-spline surface 6 - Cubic B-spline surface 8 - Bezier surface
SURFU (Stored: In Drawing) R12 – 2005	6	*3D/Draw* - PEDIT	Density of surfaces in the M direction
SURFV (Stored: In Drawing) R12 – 2005	6	*3D/Draw* - PEDIT	Density of surfaces in the N direction
SYSCODEPAGE (Stored: Not Saved) (Read-only) R12 - 2005	"ANSI_1252 "	*Environment*	System code page, indicated in the acad.xmf file.
TABMODE (Stored: Not Saved) R12 – 2005	0	*Environment*	Tablet mode 0 - Off 1 - On

Notes:

Variable	Default Value	Command(s) affected	Description
TARGET (Stored: In Drawing) (Read-only) R12 – 2005	0.0000,0.0000,0.0000	DDVIEW	Location of the target in the current viewport
TBCUSTOMIZE (Stored: In Registry) R2005	1	*Environment*	Controls whether the user is allowed to customize toolbars. 0 - Customization for Toolbars and Accelerator Keys is disabled through the UI. 1 - Toolbars and Accelerator Keys can be customized
TDCREATE (Stored: In Drawing) (Read-only) R12 - R2005	2451506.27970671	*Drawing*	Time and date drawing was created
TDINDWG (Stored: In Drawing) (Read-only) R12 – 2005	0.00162616	*Drawing*	Total time drawing was open for after creation
TDUCREATE (Stored: In Drawing) (Read-only) R2002 – 2005	2452138.13046875	*Drawing*	Time and date that the drawing was created
TDUPDATE (Stored: In Drawing) (Read-only) R12 – 2005	2451506.27970671	*Drawing*	Time and date drawing was last saved or updated
TDUSRTIMER (Stored: In Drawing) (Read-only) R12 – 2005	0.00162616	*Drawing*	User-elapsed timer

Notes:

Variable	Default Value	Command(s) affected	Description
TDUUPDATE (Stored: In Drawing) (Read-only) R2000 – 2005	2451506.27970671	*Drawing*	Stores the time and date of the last update\save
TEMPPREFIX (Stored: Not Saved) (Read-only) R12 – 2005	"C:\Documents and Settings\...\Temp\"	*Environment -* PREFERENCES	Directory used to store temporary files
TEXTEVAL (Stored: Not Saved) R12 – 2005	0	TEXT and DTEXT	Determines how characters are evaluated when sent trough script files of AutoLISP. 0 - All responses to prompts for text strings and attribute values are taken literally 1 - Text starting with an opening parenthesis [(] or an exclamation mark (!) is evaluated as an AutoLISP expression
TEXTFILL (Stored: In Registry) R13 – 2005	1	*Display*	Controls the filling of TrueType fonts while plotting. 0 - Text as outlines 1 - Text as filled images
TEXTQLTY (Stored: Not Saved) R13 - 2005	50	*Environment*	TrueType font resolutions for plotting 0 - Minimum 100 - Maximum
TEXTSIZE (Stored: In Drawing) R12 – 2005	0.2000	TEXT and DTEXT	Default height for newly created Text objects.
TEXTSTYLE (Stored: In Drawing) R12 – 2005	"STANDARD"	TEXT and DTEXT	Current Text Style
THICKNESS (Stored: In Drawing) R12 – 2005	0.0000	*All drawing commands except 3D commands*	Current object thickness

Notes:

Variable	Default Value	Command(s) affected	Description
TILEMODE (Stored: In Drawing) R12 – 2005	1	MSPACE PSPACE	Viewport mode. 0 - Paper space On 1 - Paper space Off
TOOLTIPS (Stored: In Registry) R13 – 2005	1	*Environment -* TOOLBAR	Display tooltips for toolbars 0 - Off 1 - On
TPSTATE (Stored: Not Saved) (Read-only) R2004 – 2005	0	TOOLPALETTES TOOLPALETTESCLOSE	Holds the display state of the Tool Palettes. 0 - Tool Palettes Window is not active 1 - Tool Palettes Window is active
TRACEWID (Stored: In Drawing) R12 – 2005	0.0500	TRACE	Default trace width
TRACKPATH (Stored: In Registry) R2000 – 2005	0	POLAR SNAP OBJECT SNAP TRACKING	Controls the display of Polar and Object Snap Tracking paths. 0 - Displays full screen object snap tracking path 1 - Displays object snap tracking path only between the alignment point and From point to cursor location 2 - No display polar tracking path 3 - No display polar or object snap tracking paths
TRAYICONS (Stored: In Registry) R2004 – 2005	1	*Environment*	Controls whether or not the notification icons can be displayed in the status bar area. 0 - Icons do not appear in the tray 1 - Icons are allowed to be displayed in the tray
TRAYNOTIFY (Stored: In Registry) R2004 – 2005	1	*Environment*	Controls whether or not notification balloons are displayed for the running services in the status bar tray. 0 - No notification balloons are displayed 1 - Notification balloons are displayed

Notes:

Variable	Default Value	Command(s) affected	Description
TRAYTIMEOUT (Stored: In Registry) R2004 – 2005	5	*Environment*	Controls the time interval that notification balloons are displayed. Valid range of values is 0 to 10.
TREEDEPTH (Stored: In Drawing) R13 – 2005	3020	*Environment*	Maximum number times the index can be divided into branches. 0 - Spatial index is suppressed entirely. This can cause problems with large drawings by eliminating performance improvements. >0 - TREEDEPTH is enabled which is expressed as integer of four digits. The first two digits refer to model space, and the second two digits refer to paper space. <0 - Model space objects are treated as 2D objects ignoring the Z coordinate.
TREEMAX (Stored: In Registry) R13 – 2005	10000000	*Environment*	Limits memory consumption during drawing regeneration.
TRIMMODE (Stored: In Registry) R13 – 2005	1	CHAMFER FILLET	Trims selected edges for the Chamfer or Fillet commands. 0 - Selected edges are left intact 1 - Selected edges should be trimmed to the endpoints of chamfer lines and fillet arcs
TSPACEFAC (Stored: Not Saved) R2000 – 2005	1.0000	MTEXT	Specifies the line spacing of multi line text distance measured as a factor of text height.
TSPACETYPE (Stored: In Registry) R2000 – 2005	1	MTEXT	Specifies the type of line spacing used for multi line text. 1 - At Least adjusts the line spacing based on the tallest characters that are found in a line. 2 - Exactly uses the value for line spacing, rather than individual character sizes.

Notes:

Variable	Default Value	Command(s) affected	Description
TSTACKALIGN (Stored: In Drawing) R2000 – 2005	1	MTEXT	Specifies the vertical alignment of text that is stacked. 0 - Aligned from the bottom 1 - Aligned from the center 2 - Aligned from the top
TSTACKSIZE (Stored: In Drawing) R2000 – 2005	70	MTEXT	Specifies the percentage at which the stacked text fraction height is relative to the selected text's current height.
UCSAXISANG (Stored: In Registry) R2000 – 2005	90	UCS UCSMAN	Contains the angle when rotating the UCS around the X, Y, or Z axis options of the UCS command.
UCSBASE (Stored: In Drawing) R2000 - 2005	"WORLD"	UCS UCSMAN	Contains the name of the UCS that defines the origin and orientation of orthographic UCS settings.
UCSFOLLOW (Stored: In Drawing) R12 - 2005	0	*Display*	Plan view is generated whenever your drawing changes UCS. 0 - UCS does not affect the view 1 - Any UCS change causes a change to plan view of the new UCS in the current viewport
UCSICON (Stored: In Drawing) R12 – 2005	1	*Display*	UCS icon display 0 - Off 1 - On 2 - Origin, On and floating 3 - On and displayed at the Origin
UCSNAME (Stored: In Drawing) (Read-only) R12 – 2005	""	*Display*	Name of the currently activated coordinate system of the current space.
UCSORG (Stored: In Drawing) (Read-only) R12 – 2005	0.0000,0.0000,0.0000	*Display*	Origin of the current coordinate system

Notes:

Variable	Default Value	Command(s) affected	Description
UCSORTHO (Stored: In Registry) R2000 – 2005	1	*Display*	Specifies whether or not when changing a view that the UCS setting is restored or not. 0 - UCS setting doesn't change when a orthographic view is restored 1 - UCS settings are restored when a orthographic view is restored
UCSVIEW (Stored: In Registry) R2000 – 2005	1	*Display*	Controls whether or not the current UCS is saved with a named view. 0 - UCS settings are not saved with Named View 1 - UCS settings are saved when creating a Named View
UCSVP (Stored: In Drawing) R2000 – 2005	1	*Display*	Controls whether or not the UCS in active viewports remains fixed or changes to reflect the UCS of the current viewport. 0 - Unlocked; UCS reflects the UCS of the current viewport 1 - Locked; UCS is stored in the viewport, and is independent of the UCS of the current viewport
UCSXDIR (Stored: In Drawing) (Read-only) R12 – 2005	1.0000,0.0000,0.0000	*Display*	X direction of the current coordinate system
UCSYDIR (Stored: In Drawing) (Read-only) R12 – 2005	0.0000,1.0000,0.0000	*Display*	Y direction of the current coordinate system
UNDOCTL (Stored: Not Saved) (Read-only) R12 – 2005	1	*Drawing*	Undo state 0 - UNDO is off 1 - UNDO is on 2 - Only one undo is allowed 4 - Auto option is on 8 - A group is currently active

Notes:

Variable	Default Value	Command(s) affected	Description
UNDOMARKS (Stored: Not Saved) (Read-only) R12 – 2005	0	*Drawing*	Total number of marks current in the Undo control.
UNDOONDISK (Stored: In Drawing) (Obsolete – R14 & up) R13	1	*Environment*	Used to control if the UNDO file is kept on the hard drive or in RAM. 0 - Undo file is kept in RAM 1 - Undo file is kept on the hard drive
UNITMODE (Stored: In Drawing) R12 – 2005	0	*Environment*	Units display. 0 - Displayed as previously set 1 - Displayed in input format
UPDATETHUMBNAIL (Stored: In Drawing) R2005	15	*Drawing*	Controls whether thumbnails will be created for Sheet Views, Model Views or Sheets. Thumbnails to update: 0 - Thumbnails are not updated 1 - Sheet View thumbnails are updated 2 - Model View thumbnails are updated 4 - Sheet thumbnails are updated When thumbnails should be updated: 0 - Update thumbnails manually - User initiated 8 - Update thumbnails when accessed 16 - Update thumbnails when saving drawing
USERI1-5 (Stored: In Drawing) R12 – 2005	0	*Drawing*	Total of five variables that can used to store and recall values from of the Integer type.
USERR1-5 (Stored: In Drawing) R12 – 2005	0.0000	*Drawing*	Total of five variables that can used to store and recall values from of the Real type.
USERS1-5 (Stored: Not Saved) R12 – 2005	""	*Drawing*	Total of five variables that can used to store and recall values from of the String type.

Notes:

Variable	Default Value	Command(s) affected	Description
VIEWCTR (Stored: In Drawing) (Read-only) R12 – 2005	8.4677,4.5000,0.0000	*Display*	Center of the current viewport
VIEWDIR (Stored: In Drawing) (Read-only) R12 – 2005	0.0000,0.0000,0.0000	*Display*	View direction in the current viewport
VIEWMODE (Stored: In Drawing) (Read-only) R12 – 2005	0	*Display*	View mode 0 - Turned off 1 - Perspective view active 2 - Front clip on 4 - Back clip on 8 - UCS Follow on 16 - Front clip not at eye
VIEWSIZE (Stored: In Drawing) (Read-only) R12 – 2005	9.0000	*Display*	Height current view in the viewport
VIEWTWIST (Stored: In Drawing) (Read-only) R12 – 2005	0.0000	DVIEW	View twist angle for the current viewport
VISRETAIN (Stored: In Drawing) R12 – 2005	1	XREF	Controls visibility of layers in Xref files 0 - Xref definitions in the current drawing take precedence 1 - Current drawing definitions take precedence over the Xref
VPMAXIMIZEDSTATE (Stored: Not Saved) R2005	0	VPMAX	Holds the state of the whether the Viewport is maximized or not. 0 - Viewport is not maximized 1 - Viewport is maximized

Notes:

Variable	Default Value	Command(s) affected	Description
VSMAX (Stored: In Drawing) (Read-only) R12 – 2005	50.8065,27.0000,0.0000	*Display*	Upper right corner of the current Viewport's virtual screen.
VSMIN (Stored: In Drawing) (Read-only) R12 – 2005	-33.8710,-18.0000,0.0000	*Display*	Lower left corner of the current Viewport's virtual screen.
WHIPARC (Stored: In Registry) R2000 – 2005	0	*Display*	Specifies how circles and arcs are displayed. 0 - Circles and arcs are not displayed smooth on the screen, but rather as a series of vectors. 1 - Circles and arcs are displayed smooth on the screen as true circles and arcs.
WHIPTHREAD (Stored: In Registry) R2000i – 2005	3	*Display*	Specifies how AutoCAD will use additional processors on the machine. This system variable has no effect on machines with single processors. 0 - No multithreading is used 1 - Regeneration only is carried out by multiple processors 2 - Redraw only is carried out by multiple processors 3 - Regeneration and Redraw are carried out by multiple processors
WMFBKGND (Stored: Not Saved) R2000 – 2005	0 (or Off)	EXPORT	Controls how the background of a WMF file or Copy Clip is created and displayed in other applications. 0 - Background is created as transparent 1 - Background is the same color as AutoCAD background.

Notes:

Variable	Default Value	Command(s) affected	Description
WMFFOREGND (Stored: Not Saved) R2000i – 2005	0 (or Off)	EXPORT	Controls how the foreground color assignment to AutoCAD objects of a WMF file or Copy Clip is created and displayed in other applications. 0 - Foreground and background colors are swapped in order to ensure that the foreground color is *darker* than the background color 1 - Foreground and background colors are swapped in order to ensure that the foreground color is *lighter* than the background color
WORLDUCS (Stored: Not Saved) (Read-only) R12 – 2005	1	*Display*	World Coordinate System matches w/ UCS. 0 - UCS doesn't match WCS 1 - UCS matches WCS
WORLDVIEW (Stored: In Drawing) R12 – 2005	1	DVIEW and VPOINT	UCS changes to the WCS during DVIEW or VPOINT commands. 0 - UCS is used 1 - WCS is used
WRITESTAT (Stored: Not Saved) (Read-only) R14 – 2005	1	*Drawing*	Determines the state in which a drawing is opened. (For R12 & R13 use DWGWRITE) 0 - Read only 1 - Read and write
XCLIPFRAME (Stored: In Drawing) R14 – 2005	0	XREF	Visibility of Xref clipping boundaries 0 - Boundary is not visible 1 - Boundary is visible
XEDIT (Stored: In Drawing) R2000 – 2005	1	REFEDIT	Specifies whether or not the current drawing can be edited in-place (REFEDIT) when being externally referenced by another drawing. 0 - Drawing can't be edited in-place 1 - Drawing can be edited in-place

Notes:

Variable	Default Value	Command(s) affected	Description
XFADECTL (Stored: In Registry) R2000 – 2005	50	REFEDIT	Specifies how much the surroundings of the block or drawing that is being edited in-place is faded out. 0 - Minimum percentage of fade 99 - Maximum percentage of fade
XLOADCTL (Stored: In Registry) R14 – 2005	1	XREF	Controls Xref demand loading on or off. 0 - Demand load is off 1 - Demand load is off, but reference file is kept 2 - Demand load is on
XLOADPATH (Stored: In Registry) R14 – 2005	""	*Environment* - XREF	Path for storing temporary copies of demand-load Xrefs.
XREFCTL (Stored: In Registry) R12 - 2005	0	*Environment* - XREF	AutoCAD writes external reference log. 0 - Xref logs are not created 1 - Xref logs are created
XREFNOTIFY (Stored: In Registry) R2004 – 2005	2	*Environment* - XREF	Controls the notifications for the Xrefs that are referenced to the open file. 0 - Notifications are disabled 1 - Enables Xref notification system. Activates the status bar tray icon when a drawing is opened that contains Xrefs. If the drawing is missing an Xref the icon is changed to include a yellow alert exclamation symbol (!). 2 - Enables Xref notification system. Includes the same as value 1 and also includes the displaying of balloon messages.
XREFTYPE (Stored: In Registry) R2005	0	*Environment* - XREF	Controls the reference type for when attaching an external reference. 0 - Attachment 1 - Overlay

Notes:

Variable	Default Value	Command(s) affected	Description
ZOOMFACTOR (Stored: In Registry) R2000 - 2005	60	*Display - Intellimouse support*	The factor in which is used to zoom in the AutoCAD drawing when rolling the mouse forward\backwards. Valid range is from 3 to 100 percent.

As you can see the Systems Variables with inside of AutoCAD have changed somewhat over the last several releases and with the addition of new commands into AutoCAD there is a guarantee that we will see more Systems Variables in the future. The table also provides a good reference to the System Variables that will most likely be there in the future and the ones that could be removed also. The System Variables are exciting to look at to see how AutoCAD has changed, and they have provided a lot of people to change things quickly in the AutoCAD environment through the use of macros and scripts.

Notes:

Notes:

Notes:

Notes:

Notes:

Notes:

Notes:

Notes:

Notes:

Notes:

Notes: