

New Beta Features

a. Hatch Origin

- A new option, **Hatch Origin**, has been added to the **Display** menu. When toggled ON, DataCAD will display the origin of associative hatch entities.
- Independently from the **Hatch Origin** display setting, DataCAD will show the origin of associative hatch entities when they are highlighted.

b. Lock Toolbars

- A new option, **Lock Toolbars**, has been added to the **View** pull-down menu. If checked, all docked toolbars will be locked into their current position. Floating toolbars will remain undocked.
- The following section can be added to DCADWIN.INI if you'd like to customize which regions (i.e., Top, Bottom, Left, and Right) of the program interface will become fixed when Lock Toolbars is enabled.

[Toolbars]

Locked=0

; Default value is **0**. If set to a value of **1**, all regions will lock/unlock. Top=**2**, Bottom=**4**, Left=**8**, Right=**16**.

; If you only want the Top, Bottom, and Left regions to lock/unlock, set **Locked** to a value of 2+4+8 or **14**.

c. Resizable Symbol Browser Folder

- The Symbol Browser Folder window is now re-sizable on Windows NT/2000/XP

d. Area selection box rotates with Tangents

- The **Area** selection box now rotates to match the cursor angle when using **Tangents**. A **Rotate** toggle was added just under **Crossing** in the **Area** selection menu, in order to use either the standard area box or the rotated area box when using tangents.

e. new DCAL for Delphi *.DMX macros

- DCAL for Delphi has been integrated into DataCAD 11.05.00. When you configure the **Toolbox** pull-down menu, DataCAD will be looking for both DCX and **DMX** (DLL-based) macros. You'll also notice that *.DMX has been added to the **File of Type** drop-down menu in the **Toolbox** dialog. If you've downloaded the DCAL for Delphi toolkit, you can rename the AEC_MODL.DLL and ARROW.DLL to AEC_MODL.DMX and ARROW.DMX respectively in order to run them.

f. "Locked" Hatching

- A new option, **Locked**, has been added to the **Hatching/Hatch Type** menu. If **Locked** is enabled at the time you create an associative hatch, DataCAD will remember the origin, angle, and scale of the hatch pattern relative to the entity versus relative to the drawing.
- New extended character codes have been added so you can set the state of the **Locked** toggle via a keyboard macro, toolbar icon, or alias.

0252 - Turn Hatch Type Locked On

0253 - Turn Hatch Type Locked Off

g. Display Enhancements for Panning / Zooming

- In addition to using the scroll wheel to zoom in and out (**[Ctrl] + Scroll Wheel** by default), you can now use **[Ctrl] + [Alt] + Left-click** to pan the current view.
- You can add the following entry to the DCADWIN.INI to reverse the zoom direction when using the scroll wheel.

[General]

Reverse Scroll Wheel Zoom=TRUE

h. Perspective walk-throughs with dynamic panning

- **Perspective** walk-throughs can be performed with the mouse using dynamic panning (**[Ctrl] + [Alt] + Left-click**). If **Set Persp. / Pan View** is ON, the perspective view will be panned as a 2D projection of a perspective view.

i. Display Enhancements

- DataCAD's graphic pipeline has been enhanced for improved performance.
- The time required for Panning, Zooming, Dynamic Panning, and Scroll Wheel Zooming has been significantly reduced.
- In addition, the Perspective **Walk Thru / Pan View** setting is recognized when you use either the scroll wheel or dynamic panning methods to walk forward/backward or step up/down/left/right respectively.

- A new menu item, **Scroll Dist.**, has been added to the Perspective **Walk Through / Options** menu to set the walk and step distance when using the mouse to navigate in a perspective view.
- Refresh times (via **[Esc]**) is now 2x - 3x faster

j. New/Updated DCADWIN.INI display options

[Display]

Enhanced Bitmap=FALSE

; Default value is FALSE. If FALSE, DataCAD will take less time to resample bitmaps before they are displayed (lower quality). If TRUE, DataCAD will take longer to resample bitmaps before they are displayed (higher quality).

Max Vectors=10000

; Default value is 10000. Sets the number of vectors to display at once after recalculating the display.

Max Entities=1000

; Default value is 1000. Sets the number of vectors to draw before checking for an interrupt such as Panning or Dynamic Panning. If you have a fast display adapter, you can increase this value to reduce flicker when you use Dynamic Panning (entities filled with either hatch patterns or bitmaps excluded).

[Display List]

Min Arc Vectors=24

; Default value is 24 segments. Sets the minimum number of vectors to draw for arcs, circles, and ellipses (symbols and XREFs excluded). The higher the value, the smoother arcs will display without requiring a Regen.

UseBoxOnScroll=TRUE

; Default value is TRUE. If TRUE, DataCAD will display extents boxes for text and other complex entities when you use Dynamic Panning. If FALSE, DataCAD will not substitute extents boxes for text and other complex entities when you use Dynamic Panning.

[Printer]

Enhanced Bitmap=TRUE

; Default value is TRUE. If TRUE, DataCAD will take longer to resample bitmaps before they are printed (higher quality). If FALSE, DataCAD will take less time to resample bitmaps before they are printed (lower quality).

[Bitmaps]

MinSize=0.001

MaxSize=100

; Specify the minimum and maximum size (in megabytes?) of bitmaps to store in memory. Increase the minimum size and decrease the maximum size if the amount of RAM you have available is limited (i.e. 256MB or less) and if your drawings contain either a lot and/or large bitmaps.

k. Command Line Calculator Tokens

- The following tokens have been added for use with the Command Line Calculator.

Operation Example Calculated Value

Z-Base =**ZBASE**+1 Current Z-Base + 1

Z-Height =**ZHITE**+1 Current Z-Height + 1

Last X =**LASTX**+1 X, Y, or Z coordinate of last point

Last Y =**LASTY**+1 selected relative to absolute zero.

Last Z =**LASTZ**+1

Truncate =**TRUNC**(123.456) 123

Fraction =**FRAC**(123.456) 0.456

Logarithm =**LOG**(1000) 3 (Base 10)

- The following tokens are not covered in the Reference Manual.

Power =**10^2** 100

Exponential =**EXP**(1) 2.718281828

Absolute Value =**ABS**(-123.456) 123.456

PI =**PI** 3.14159265359

I. Symbol Attribute Database Link

- You can add the following entries to the [DEBUG] section of DCADWIN.INI to enable the new Symbol Attribute Database Link.

```
[DEBUG]
AttributeReporter=TRUE
AttributeLookups=TRUE
```

When you create a Symbol Text Attribute, you'll notice a new section, **Database Linkage**, for defining a database source to select values from.

No Link

Just like it sounds. This is the default setting.

Lookup Field

Define field within database record to choose values from.

Field Filled by Lookup

Field value set by previous symbol attribute.

Database Name:

Choose Tab Delimited Text File (*.txt) for database source. (We plan to enable ODBC in the future).

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You will also find new menu items located on the **Options** menu from the Symbol Browser.

Extract Attributes

Allows you to run reports on symbol attributes you've inserted into your drawing.

Refresh Fields From Database(s)

Allows you to update the values contained in symbol attributes you've inserted into the drawing to reflect the latest changes in the database(s).

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DataCAD 11.05.01 BETAS

XCLIP Export to DWG

DataCAD XClips are now exported via DWG. Note: "Automatically Export Reference Files" must be enabled. A new version of DXFDWG.DLL is installed with this update.

Here are a pair of XClips that were created in DataCAD, exported to .DWG, and opened in ACAD. This image is IDENTICAL to the XClip in DataCAD!! See the images on the next page.