Macros supplied with **Cadvance 2002**

Macros found in C:\Program Files\Cadvance 2004\Macros

ATTRZOOM.CBL   Copyright (c) F I T, Inc.

Edited for V8 This CADVANCE sample macro selects a 2D drawing object based on its attribute information, centers it on the screen and zooms into it. Make sure to have the correct relational database path selected in Options/Path

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CAD2TT.CBL   Copyright (c) F I T, Inc.

'This CADVANCE macro translates CAD text to TrueType

CALC.CBL   Copyright (c) F I T, Inc.

This CADVANCE macro starts the Windows Calcu lator

Cvirtab.cbi.CBL   Copyright (c) F I T, Inc.

Suport file for the Virtual Tablet

DRAWBOX.CBL   Copyright (c) F I T, Inc.

This CADVANCE sample macro is a translation of a 4.0 macro appearing in C:\CAD\NEWS, Jan 92. It centers a line of text in a box, using the current text format settings.

EDITWORD.CBL   .

Select text string(s) then run editword. It automatically displays the selected test string(s), one at a time. You can edit (change) the test string in the dialog box.

EURATEXT.CBL   Copyright (c) F I T, Inc.

This macro scans a drawing and converts all text from the OEM character set used in DOS programs to the ANSI character set used in Windows programs. It also changes all fonts starting with EURO to start with EURA. If it finds a font starting with EURA it will not translate the drawing because text strings can not be translated twice.

EXCEL.CBL   Copyright (c) 1997, F I T, Inc.

This CADVANCE macro starts Microsoft Excel

EXPLORER.CBL   Copyright (c) 1998, F I T, Inc.

This CADVANCE macro runs the Windows Explorer

EXTENDLN.CBL   Copyright (c) F I T, Inc.

Extends the selected line segment to another line.

EXTENT.CBL   Copyright (c) 1998, F I T, Inc..

This macro allows the user to specify a window. It will then scan the entire drawing for objects lying outside the window and place those objects on the CADVANCE OSL. The user can then perform a Query object on them or can Edit/Delete them

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FAQ.CBL   Copyright (c) F I T, Inc.

This CADVANCE macro starts the CADVANCE FAQ site connection

GVIRTAB.cbl   Copyright (c) F I T, Inc.

Virtual Tablet Macro

LAYER.CBL   Copyright (c) 1998, F I T, Inc.

This CADVANCE macro tells you the layer on which a selected object is placed

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LINEANGL.CBL   Copyright (c) 1998, F I T, Inc.

Prompts for the user to select a line and displays the line angle.

LYR-READ.CBL   Copyright (c) F I T, Inc..

This CADVANCE sample macro reads the currently installed layer file'and writes its contents out to a text file. You can choose comma or space delimiter between the fields and import it into a spreadsheet or database.

MERGE.CBL   Copyright (c) F I T, Inc.

This CADVANCE macro lets you merge multiple 2D drawings by picking an insertion point, then moving, rotating or scaling the merged drawing.

NEWLINE.CBL   Copyright (c) F I T, Inc.

This CADVANCE macro lets you draw a specified number of lines of specified length and angle. See Technical Notes for an explanation of the code.

NOTEPAD.CBL   .

This CADVANCE macro starts the Windows Notepad

OFFSET.CBL   Copyright (c) F I T, Inc.

This CADVANCE sample macro simulates the CTRL+F2 offset via a macro function

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PKGPOVRD.CBL   Copyright (c) 1998, F I T, Inc

This CADVANCE macro eliminates groups on invisible layers whose Masters have been deleted by a bad pack operation. It also prepares drawing for reloading deleted Symbol Master definitions.

QROTATE.CBL   Copyright (c) F I T, Inc.

Macro to quickly rotate a group of CAD text objects or symbols by user-specified degrees around each object individual placement point. This macro is very useful when switching plotting orientation between landscape and portrait

This is an updated version of a macro originally Copyrighted 1992 by KCF (named TROTATE.MAC)

SETDEFLT.CBL   .

Set Default Macro Program
This CADVANCE macro sets the graphics properties based on an object selected. An object will be selected first, then the properties are set as default for the next operation, so that the user doesn't need to change layer, color, stype, etc. for a new settings. Simply select an object whose properties are to become the default.

SIZEARC.CBL   Copyright (c) 1998, F I T, Inc.

Calculates the area bounded by an arc, defined by the arc itself or its chord.

This is an enhanced version of a macro originally Copyrighted 1992 by KCF (named ARC.MAC)

SURVEY.CBL .

Accepts property line input from a site survey and converts it to CADVANCE format

This macro is based on original work by KCFEEK (C)Copyright 1988, Keyes Condon Florance

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SURVEY2.CBL   Copyright (c) F I T, Inc.

This macro is a modification of SURVEY.CBL. It was created per customer specification. It preserves the original world size and unit type.

SVIRTA.CBL   Copyright (c) F I T, Inc.

Virtual Tablet Macro

TECH_SUP.CBL   Copyright (c) F I T, Inc.

'This CADVANCE macro starts the
'CADVANCE technical support site connection

TT2CAD.CBL   Copyright (c) F I T, Inc.

This CADVANCE macro translates TrueType text to CAD

WEBSITE.CBL   Copyright (c) F I T, Inc

This CADVANCE macro starts the CADVANCE web site connection

Macros found in c:\Program Files\Cadvance 2004\Macros\ From JC

From Joe Calvin (Thorp Associates)   (Edited by F I T, Inc.)

Cadalog.cbl

SYMBOL CATALOG is a macro that generates a printable catalog of a user's symbols organized alphabetically by symbol directory. It can save users many hours of work from having to manually compile and update a symbol catalog. It scales the symbols depending on their use into organized Grids on 8 1/2 x 11 pages. It also provides special layouts for line and area textures. The user can select the fonts and colors used for the catalog from a dialog box. This macro is probably a little easier to read than some of our previous ones. Users can study it to find out how to use CBL to search the file system, load, scale, and position symbols, and manipulate the extents of the graphic area.   Symbol Catalog is a self-contained macro consisting of only the one file. It is a new macro for us, so we had not had a very long time to test it.

Cloud.cbl

CLOUD is a macro which allows the user to easily clean, consistent revision clouds in a drawing. We've been using this macro in pretty much its current form since 1995. It is self-contained in the single file, but unlike the Daystamp macro, the users are encouraged to edit the CBL file to configure it for their specific office standards. We've added some easy to find, and friendly references to layer, color, and weight at the beginning of the CBL file

Config.cbl

```
D A Y S T A M P    C O N F I G U R A T I O N    M A C R O
```

Daystamp.cbl

DAYSTAMP is a macro which creates and updates a "daystamp", a small piece of text in the lower left corner of a drawing which indicates the drawing's file name, the user's ID, the date, and the time the drawing was last saved or printed. We have found this to be very useful and have been using a variation of this macro since 1994. A manager can pull printed drawings out of the drawer and know exactly how old they are, which of several prints is most up-to-date, and who was responsible for last working on the associated CAD file. Daystamp is not a self-contained macro. "Daystamp" is the main module that creates and updates the text. "Daystamp Config" is a small macro which gives the user a dialog box to set up the daystamp work with the user's office standards. A file called "Daystamp.INI" is created once the macro has been configured. The "Daystamp Real Me.doc" or daystamp.wri describes exactly how to "link" the Daystamp macro to the File/Save commands so that the daystamp is always kept up-to-date

Textcase.cbl

TEXTCASE is a simple little macro. When we started using Archcase in our drawing in 1994, we discovered that many of our old notes we kept copying around were typed with the CapsLock key down. TextCase changes all selected text to lowercase allowing easy adoption of the ArchCase font. This is a good simple example to users of how a macro written in only 5 minutes can save many hours of manual work

UnitConv.exe

UNIT CONVERSION is also not a CADVANCE macro, it is a tiny stand-alone application we wrote in Visual Basic for working in multiple units on a single drawing (i.e. English and metric). It does support the clipboard for taking text to and from CADVANCE. Feel free to give it to other users if you think they would use it, or modify it if you want, the source code is included.

Macros found in c:\Program Files\Cadvance 2004\Macros\ User Mac

FRACTION.CBL

```
The FRACTIONIZE macro
---------------------------------------------------------------------------
```
"The FRACTIONIZE macro was written by Joseph E. Calvin of Thorp Associates,
P.C., Architects and Planners. It collapses and extracts CAD Text in the
English fraction form into condensed, easy to read fractions. It is a very good
tool for long string of small dimensions."

```
 INSTRUCTIONS:
 1. Select some text which reads "1'-3 1/2" Max." or something
 2. Run the Fractionize macro
 3. Run the Fractionize macro again to decompress the fraction
```

While this macro was designed specifically for the ArchCase Font, it works with
most CAD fonts. The macro will work with multiple pieces of selected text.
Using the TextCreate/Edit macro (text-cve.cbx), in place of CADVANCE's Draw and
Edit Text commands, automatically handles fractionized text. Because
fractionized pieces of text are really groups, drawing files should be packed
after a lot of fractionizing.

IAQ-SUB.CBL

```
Included module of the INTERACTIVE QUERY macro
---------------------------------------------------------------------------
```
"The INTERACTIVE QUERY macro was written by Joseph E. Calvin of Thorp
Associates, P.C., Architects and Planners as part of a presentation to FIT, Inc.
demonstrating the potential possibilities and benefits of providing CADVANCE
with a friendly and dynamic user interface."

The INTERACTIVE QUERY macro is a proposed alternate to CADVANCE's QueryObject
and EditProperties commands. Running the macro with an object or objects
selected gives quick and easy access to object properties, as well as geometric
variables which are fully editable. The tab key can be used to quickly navigate
the IAQ information windows. Layer may be indicated by either number or name
(or unique portion of name - no wild card characters required). The IAQ macro
can be run from within the TOOL macro by clicking the right button when objects
are selected.

INTACT-Q.CBL

```
Main module of the INTERACTIVE QUERY macro
---------------------------------------------------------------------------
```
"The INTERACTIVE QUERY macro was written by Joseph E. Calvin of Thorp
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the IAQ information windows. Layer may be indicated by either number or name (or
unique portion of name - no wild card characters required). The IAQ macro can
be run from within the TOOL macro by clicking the right button when objects are
selected.

LayrCtrl.cbl

```
LAYER CONTROL MACRO by Thorp Associates
Allows setting of active layer by name, partial name, number, or menu selection.
Also allows setting of color, line style and weight by number or menu selection.
Saved layer setups (.lyr files) can be loaded from a menu without upsetting
CADVANCES's open dialog box settings. Use LayerOn and LayerOff to set layers
visibility by number, by name or partial name.
```

```
All layers containing the characters of the partial name will be affected.  Do
not enter wild cards (i.e. *), they are assumed by the macro Use PickOff to
quicly hide selected layers - click the second button when done Use PickSet to
set the active layer, color, line style, and weight to match that of an existing
object (like the eye dropper tool in paint programs).
```

ROTATE.CBL

```
The ROTATE macro.
-------------------------------------------------------------------------
"The ROTATE macro was written by Joseph E. Calvin of Thorp Associates, P.C.,
Architects and Planners as part of a presentation to FIT, Inc. demonstrating the
potential possibilities and benefits of providing CADVANCE with a friendly and
dynamic user interface."
```

```
The ROTATE macro allows for quick and accurate freehand graphic rotation of
selected objects.
```

```
INSTRUCTIONS:

 1. Select Objects
 2. Run the Rotate macro
 3. Select the center of rotation
 4. Indicate an angle by clicking outside the compass icon
```

```
Angles indicated are rounded to the nearest 15 degrees. Exact odd angles can be
entered by clicking inside the compass icon.  Selected objects can be rotated
into exact alignment with other objects by using this macro with snaps.
Normally the macro temporarily turns off the snap when it prompts for an angle
to be indicated.  If a snap is set, the macro will use the exact angle indicated
by the snap without rounding.
```

```
ALIGNMENT EXAMPLE:
 1. Select a piece of text
 2. Run the Rotate macro
 3. Set Vertex Snap and click on one end of a diagonal line to indicate the
    center of rotation

 4. Set Vertex Snap again, and click on the other end of the line to
    indicate the exact angle.
```

TEXT-CVE.CBL   Copyright 1997, F I T, Inc

The TEXTCREATE/EDIT macro.

TEXTCREATE/EDIT - This macro allows editing of condensed fractions as well as
all other CAD text.

This macro was written by Joseph E. Calvin of Thorp Associates, P.C.,
Architects and Planners.

TOOLEDIT.CBL   Copyright 1997, F I T, Inc

Included module of the TOOL macro.

"The TOOL macro was written by Joseph E. Calvin of Thorp Associates, P.C.,
Architects and Planners as part of a presentation to FIT, Inc. demonstrating the
potential possibilities and benefits of providing CADVANCE with a friendly and
dynamic user interface."

The TOOL macro proposes alternate function-ability to the default "Select
Objects" mode. Its primary features are automatic snapping and Macintosh style
editing handles. The TOOL macro is intended to run continuously in the
background with other CADVANCE commands run on top of it. Clicking near an
object automatically snaps to its geometry and provides graphic feedback to
indicate the snap. If the CADVANCE snap mode is set to anything other than
"off", then the set snap will override the automatic snapping. In addition to
editing control handles, automatic snapping is active during the following
commands: Draw Lineset, Draw Circle Radius, Draw Arc Radius, Edit Alter Break,
Edit Move, and Edit Duplicate. It is very helpful to user productivity if these
commands are Tool Bar icons. Try drawing a lineset by automatically snapping to
text. The geometry of the following objects can be directly edited by clicking
on the highlighted handles: Lines, Linesets, Circles, Arcs, Rectangles, and
Contours. Clicking the right button with an object or objects selected executes
the InterActiveQuery macro. Clicking the right button with no object selected
allows configuration or termination of the TOOL macro. Due to the limitation of
CBL, selecting multiple objects with the TOOL is somewhat non-standard,
therefore, some experimentation may be required. Also, because CBL cannot trap
use of the Ctrl-F2 Offset option, attempting to use it in conjunction with auto-
snapping is not recommended. Avoid running multiple copies of the TOOL macro.

TOOLHAND.CBL

```
Included module of the TOOL macro.
--------------------------------------------------------------------------------
"The TOOL macro was written by Joseph E. Calvin of Thorp Associates, P.C.,
Architects and Planners as part of a presentation to FIT, Inc. demonstrating the
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dynamic user interface."
--------------------------------------------------------------------------------
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```

TOOLMAIN.CBL

```
Main module of the TOOL macro.
--------------------------------------------------------------------------------
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Edit Move, and Edit Duplicate.  It is very helpful to user productivity if these
commands are Tool Bar icons.  Try drawing a lineset by automatically snapping to
text. The geometry of the following objects can be directly edited by clicking
on the highlighted handles:  Lines, Linesets, Circles, Arcs, Rectangles, and
Contours.  Clicking the right button with an object or objects selected executes
the InterActiveQuery macro.  Clicking the right button with no object selected
allows configuration or termination of the TOOL macro.  Due to the limitation of
CBL, selecting multiple objects with the TOOL is somewhat non-standard,
therefore, some experimentation may be required.  Also, because CBL cannot trap
use of the Ctrl-F2 Offset option, attempting to use it in conjunction with auto-
snapping is not recommended.
```

TOOLSNAP.CBL

Included module of the TOOL macro.
12/10/97 Edited for CADVANCE V8 (NULL to NULL_VAL as long)

"The TOOL macro was written by Joseph E. Calvin of Thorp Associates, P.C.,
Architects and Planners as part of a presentation to FIT, Inc. demonstrating the
potential possibilities and benefits of providing CADVANCE with a friendly and
dynamic user interface."

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allows configuration or termination of the TOOL macro. Due to the limitation of
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therefore, some experimentation may be required. Also, because CBL cannot trap
use of the Ctrl-F2 Offset option, attempting to use it in conjunction with auto-
snapping is not recommended. Avoid running multiple copies of the TOOL macro.

TOTAL.CBL

The TOTAL macro.

The TOTAL macro was written by Joe Calvin of Thorp Associates, P.C.

The TOTAL macro displays sum of all numeric selected text.

The numbers must be CAD text and they can have one comma in them.The result
tells the sum as well as the number of selected objects contributing to the sum.

VOA Extend and Trim (Simple) version 1.0
Written by Theodor Radu

This CADVANCE macro trims or expands arcs and lines

Files included:

Voaextrs.cbx
Voaextrs.cbl
Voaextrs.cbh
Voaextrs.wri (this document)

This is one of our first macros since Cadvance was moved to the Windows environment. So, any comments regarding bugs and improvements will be greatly appreciated. It is offered here free of charge. Call it freeware if you like. But please give us credit.

Theodor Radu did the coding. Theo is a computer science major at the University of Illinois at Chicago and a part time employee in the Computer Services department at VOA. He is the son of Cornell Radu, an architect at VOA.

VOAEXTRS.CBX is a macro, which can extend and trim:
- lines to lines
- lines to arcs
- arcs to arcs
- arcs to lines

This macro plugs an arc-editing hole in Cadvance that we identified many years ago. While we find Cadvance fast and easy to use, it's arc editing is less than optimal. Users of other CAD programs are quick to point this out. ACT's extend arc macro could be used to over shot a line, after which we could trim the arc to the line in question. But this procedure is awkward. We also thought it would be nice to make a comprehensive extend/trim macro for both lines and arcs so we don't have to think which one to use for common editing requirements.

Note that VOAEXTRS.CBH must also be located in your macro directory, as it has additional code, which could not be fit in one macro.

We recommend that the value of "1" for Options/Miscellaneous/Screen arc generation, as a value of "0" (the default) results in erroneous screen display of arcs when viewed up close, especially at intersections with other arcs and lines.

Also available is VOAEXTRC.CBX (c for complex). The complex version shows all possible extend/trim editing options between two entities. Thus we call it complex. So if you like options, you may prefer this version. Send me a note via e-mail if you would like a copy. The "s" simple version is optimized for the editing we do most of the time.

Many thanks also to Kevin Tenbrook for his informative macro writing articles in C:\CAD\NEWS.

Questions, comments and bug reports should be directed to:

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