

# How do I center a window on the desktop?

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To center a window, you could follow the example shown in the \$ISCOBOL/sample/iscontrolset/isControlSet.cbl source code:

For example, to obtain the physical screen width in pixels:

```
accept terminal-abilities from terminal-info
```

After executing the statement above, the physical-screen-width and the physical-screen-height items in the terminal-info group contain the screen dimensions measured in pixels.

The isControlSet.cbl sample uses these measurements to obtain the column and line positions for the centered window:

```
compute win-col    = (physical-screen-width - 829 ) / 2
compute win-line   = (physical-screen-height - 597 ) / 2
```

The isControlSet.cbl sample uses fixed window dimensions, 829 pixels width and 597 pixels height.

However, in the general case a window's real pixel dimensions are based on the font used for the window. If you want to create a generic routine for centering a window, you can use the W\$TEXTSIZE library routine to obtain the pixel dimensions of the window. For example, the following subprogram centers a window given a window handle and control font handle:

```
IDENTIFICATION DIVISION.
PROGRAM-ID. W_CENTER.
DATA DIVISION.
WORKING-STORAGE SECTION.
copy "iscobol.def".
copy "isgui.def".
copy "iscrt.def".
copy "isfonts.def".
77 w-lines pic 9(4).
77 w-size pic 9(4).
77 w-col pic 9(4).
77 w-line pic 9(4).
77 unit-x pic 9(4).
77 unit-y pic 9(4).
LINKAGE SECTION.
01 lks-h-win handle of window.
01 lks-h-font handle of font.
PROCEDURE DIVISION USING lks-h-win, lks-h-font.
MAIN.
    inquire lks-h-win lines in w-lines
```

```

size in w-size

move lks-h-font to textsize-font.
move lks-h-win to textsize-window.
set textsize-strip-spaces to true .
call "W$TEXTSIZE" using 0 , textsize-data.

compute unit-x rounded = textsize-base-x / textsize-cells-x.
compute unit-y rounded = textsize-base-y / textsize-cells-y.

compute w-lines rounded = w-lines * unit-y
compute w-size rounded = w-size * unit-x

accept terminal-abilities from terminal-info .
compute w-col = (physical-screen-width - w-size)
                / 2 .
compute w-line = (physical-screen-height - w-lines)
                 / 2 .

modify lks-h-win screen line w-line
                screen col w-col
                visible 1
.

```

Please consider that the dimensions obtained do not include the title-bar because it is not part of the client area of the window.

Example:

```

display standard window background-low
screen line 41
screen column 91
size 64.0
lines 48.0
cell width 10
cell height 10
visible 0
label-offset 20
control font default-font
color 257
modeless
title "Screen"
handle h-win
.
call "W_CENTER" using h-win, default-font.

```

The attached file, w\_center.cbl, contains the W\_CENTER routine shown above.