

# Installing the Large Custom Cursor in FoxView

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1. Copy the tar file (`cursor.tar`) to `/tmp` on your machine.
2. Type `tar xvf /tmp/cursor.tar`
3. Modify the `/usr/fox/wp/data/init.user` file by changing the line containing `FXCURSOR` to be:

```
FXCURSOR=/opt/customer/data/cursor/poi nter_l arge
```

FoxView reads the “`init.user`” file. If it does not exist copy the `init.user.rel` file into `init.user` and then modify.

4. Reboot your machine.

If you want a cursor which is large and white, download the optional `poi nter_l arge.cur` as a replacement to the one provided (that is a large black cursor).

## Editing Cursor Files

**Warning: Editing a cursor incorrectly can lockup FoxView on reboot. Be sure that you check each file that you change. It’s usually best to copy files before editing.**

The cursor files for Foxboro are organized in 3 groups of 2. The groups are for the normal cursor, the busy cursor, and the menu (pull-down) cursor. The first “`cur`” file defines the look, while the “`mask.cur`” file defines the size. (ie `poi nter_l arge.cur`, `poi nter_l arge_mask.cur`, `poi nter_l arge_menu.cur`, `poi nter_l arge_menu_mask.cur`, `poi nter_l arge_busy.cur`, `poi nter_l arge_busy_mask.cur`)

To edit a cursor file, run the `iconedit` command from the VT100 shell, and open the cursor file you wish to edit (ie `poi nter_l arge.cur`).

Edit the pixels to create the shape you desire. When saving the cursor file, choose “Save As...” and choose “X Bitmap” as cursor type (Note: it’s a good idea to “Save As...” under a different name, then copy over the original file from VT100). This generates a text file similar to the one listed below.

```
#defi ne l arge_poi nter_wi dth 32
#defi ne l arge_poi nter_hei ght 48
static unsi gned char l arge_poi nter_bi ts[] = {
...
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00};
```

This is the normal cursor file. The “`mask`” file now needs to be edited (without editing the “`mask`” file, the cursor will not work correctly). Keeping the same file open, enlarge the cursor area by at least one pixel (the “`mask`” file needs to encompass the entire cursor, plus one pixel). I generally add a line around the entire arrow, making a bulkier arrow in the “`mask`” file.

Though the files are saved in the correct format, they do not contain all of the correct information used by FoxView. Below is part of the original cursor file (`poi nter_l arge.cur`):

```
#defi ne l arge_arrow_shape_wi dth 32
#defi ne l arge_arrow_shape_hei ght 48
#defi ne l arge_arrow_shape_x_hot 1
#defi ne l arge_arrow_shape_y_hot 1
static unsi gned char l arge_arrow_shape_bi ts[] = {
...
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00};
```

Notice that the header (the `#define` lines) is different. In order for the cursors to work correctly, all common cursor file headers need to match (the first 5 lines, including the line `static unsigned char large_arrow_shape_bits[] = {}`). Copy the header from the original file or from the existing “busy” or “menu” cursor files to the normal cursor file and the mask file (using `vi` or `textedit`).

Each file can be edited this way to make a working custom cursor. The entire white `pointer_large.cur` file is listed below.

```
#define large_arrow_shape_width 32
#define large_arrow_shape_height 48
#define large_arrow_shape_x_hot 1
#define large_arrow_shape_y_hot 1
static unsigned char large_arrow_shape_bits[] = {
    0x00, 0x00, 0x00, 0x00, 0x1e, 0x00, 0x00, 0x00, 0x22, 0x00, 0x00, 0x00,
    0x42, 0x00, 0x00, 0x00, 0x82, 0x00, 0x00, 0x00, 0x02, 0x01, 0x00, 0x00,
    0x02, 0x02, 0x00, 0x00, 0x02, 0x04, 0x00, 0x00, 0x02, 0x08, 0x00, 0x00,
    0x02, 0x10, 0x00, 0x00, 0x02, 0x20, 0x00, 0x00, 0x02, 0x40, 0x00, 0x00,
    0x02, 0x80, 0x00, 0x00, 0x02, 0x00, 0x01, 0x00, 0x02, 0x00, 0x02, 0x00,
    0x02, 0x00, 0x04, 0x00, 0x02, 0x00, 0x04, 0x00, 0x02, 0x00, 0x03, 0x00,
    0x02, 0xe0, 0x00, 0x00, 0x02, 0x10, 0x00, 0x00, 0x02, 0x10, 0x00, 0x00,
    0x02, 0x20, 0x00, 0x00, 0xe2, 0x20, 0x00, 0x00, 0x12, 0x41, 0x00, 0x00,
    0x0e, 0x41, 0x00, 0x00, 0x00, 0x82, 0x00, 0x00, 0x00, 0x82, 0x00, 0x00,
    0x00, 0x04, 0x01, 0x00, 0x00, 0x04, 0x01, 0x00, 0x00, 0x08, 0x02, 0x00,
    0x00, 0x08, 0x02, 0x00, 0x00, 0x10, 0x04, 0x00, 0x00, 0x10, 0x04, 0x00,
    0x00, 0x20, 0x08, 0x00, 0x00, 0x20, 0x08, 0x00, 0x00, 0x40, 0x10, 0x00,
    0x00, 0x40, 0x10, 0x00, 0x00, 0x80, 0x20, 0x00, 0x00, 0x80, 0x20, 0x00,
    0x00, 0x00, 0x41, 0x00, 0x00, 0x00, 0x41, 0x00, 0x00, 0x00, 0x82, 0x00,
    0x00, 0x00, 0xfe, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00};
```