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Subject: A solution: Cursor-editing techniques/tools?  
Posted by [djackson](#) on Wed, 08 Dec 1993 22:24:36 GMT  
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In article <2e338a\$hv4@canopus.cc.umanitoba.ca>  
djackson@ibd.nrc.ca (Dick Jackson) (that's me!) writes:

> Hi folks,  
>  
> I need to make up a few cursors for an IDL widget application [...]  
[...]  
> At the most, I'd love to hear that someone's made a widget application  
> for doing cursor editing!

Umm, sorry to have missed it, but I've just discovered a widgets  
application called XBM\_EDIT, a bitmap editor, which will write a  
byte(2,16) array definition out  
to a file (the file was named 'curs' in this example), like this:

```
curs = [
           $
           [120B, 000B],      $
           [132B, 000B],      $
           [018B, 001B],      $
           [010B, 001B],      $
           [002B, 001B],      $
           [002B, 001B],      $
           [132B, 000B],      $
           [248B, 000B],      $
           [192B, 000B],      $
           [128B, 001B],      $
           [128B, 001B],      $
           [000B, 003B],      $
           [000B, 003B],      $
           [000B, 006B],      $
           [000B, 002B],      $
           [000B, 000B]      $
        ]
```

Then, inspired by some code sent to me by Gwyn Fireman  
<FIREMAN@iuegts.gsfc.nasa.gov> (thanks!), I've got this working as a  
converter to the necessary intarr(16) format for the cursor:

```
@curs ; to execute the file 'curs', loading the variable 'curs'
cursor = intarr(16) ; cursor must be integer array
for i = 0, 15 do cursor(i) = total(curs(*,i) * [256,1])
device, cursor_image = cursor, cursor_xy = [7,7] ; for hot-spot in
the centre
```

If you are going to use the cursor on a black background, another cursor for the mask will be helpful, and can be edited in the same way, and put into the 'device' command. A hint for the curious: to get a full mask, try this:

```
device, cursor_image = cursor, cursor_xy = [7,7], cursor_mask =  
intarr(16) - 1
```

Sorry for the trouble, and thanks to one and all who replied!

-Dick

Dick Jackson                    \\_     djackson@ibd.nrc.ca  
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National Research Council Canada \\_     Opinions are mine  
"We're all out of hummous, so I gave you extra babagonoush."

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