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## Instrument Model Bugs: fpsf1d, fpsf2d

### Bugs

1. *The function for extracting the sub-array in these models is not working as intended.*

The desired region of the PSF is not getting selected correctly. Using the full array leads to better results in the cases examined so far.

#### Workarounds:

1. for `fpsf1d` set `xsize` to be equal to the number of bins or data points. In `fpsf2d`, make `xsize` the length of the x-axis, and `ysize` the length of the y-axis. In all cases, leave `xoffset` and `yoffset` at zero.
2. If the first workaround does not solve the problem, manually crop the PSF such that `lplot psf` and `image psf` look like you'd expect.

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URL:  
[http://cxc.harvard.edu/sherpa3.4/bugs/inst\\_fpsf1d.html](http://cxc.harvard.edu/sherpa3.4/bugs/inst_fpsf1d.html)  
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