Subject: Re: IDLanROI Confusion
Posted by Mark Hadfield on Wed, 04 Apr 2001 23:55:14 GMT
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"Craig Markwardt" <craigmnet@cow.physics.wisc.edu> wrote in message news:onitkkcp6b.fsf@cow.physics.wisc.edu...

>

- > More than likely the region of interest becomes pixelated into square
- > pixels. It's pretty clear to me that this will give a greater
- > perimeter than a true circle since there are more horizontal and
- > vertical segments than are required.

>

- > What happens if you make the circle much much bigger? I think then
- > the answers will converge to what you expect.

I don't.

Consider a pixelated diagonal line segment. The length along the pixel edges will exceed the true (along-diagonal) length by sqrt(2), however fine you pixelate it.

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