Subject: Re: IDLanROI Confusion

Posted by davidf on Thu, 05 Apr 2001 03:20:44 GMT

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Mark Hadfield (m.hadfield@niwa.cri.nz) writes:

- >> 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.

Well, I've done the experiment (easy with IDL:-) and I find that the area seems to converge, but the perimeter seems to remain about 15-17% larger than I expect it to be. I am now trying to figure out a clever way to add up the straight line distance between points without using a loop. (And without resorting to JD.) I'll let you know what I find.:-)

Cheers,

David

P.S. Let's just say that 15% is probably right at the border of the other, unavoidable, errors in my analysis, but it is big enough to worry me.

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