Subject: Re: the length of line
Posted by Eric Vella on Tue, 04 Jun 2002 17:22:44 GMT
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To really solve this problem as you have outlined it, you probably need some clever recursive algorithm for traversing the line and following all branches, summing the length as you go. You might want to separate the "line" into blocks connected purely by straight segments, separated from other blocks by diagonal connections. The "length" of each block is then the number of pixels, and each extra block extends the length of the line by an additional diagonal. If you only need an approximate length, why not ignore the diagonals and simply count pixels?

"Xiaoying Jin" <xje4e@mizzou.edu> wrote in message
news:adgr20$5r5$1@dipsy.missouri.edu...
> Hi, there,
>
> I have an image having a line on it. The line has one-pixel width. The
> approxiamate method to calculate the length of the line is like this:
> the length is calculated as the sum of distances between adjacent pixels
on
> the line, where 1 is the vertical or horizontal distance between adjacent
> pixels and sqrt(2) is the distance between pixels on diagonals.
>
> My question is:
> How can I trace this line and get the length of the line?
>
> Any suggestion will be appreciated.
>
> Regards,
>
> Xiaoying Jin
>
>