Subject: Re: Perimeter or Vertices from the return of search\_2D?? Posted by David.Steele on Wed, 15 May 1996 07:00:00 GMT

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In article <pine.sola.3.91.960514123444.7234c-100000@sparky.ic.sunysb.edu>, sbarrkum@ic.sunysb.edu says &gt;</pine.sola.3.91.960514123444.7234c-100000@sparky.ic.sunysb.edu>
> Has anyone developed some code that would find the perimeter or vertices > of pixels returned by the search_2d routine. I have done a search on > Peter Rileys web page using keywords such as "vertices" and "perimeter". > Only get a procedure that apparently want a inputs of vertices and will > then compute the perimeter etc. I have not been able to find a routine > that can find either the vertices or perimeter given a a set of contigous > pixels (as returned by search_2d).
> Any suggestions, algorithms known would be welcome
> Barr-Kum >
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A suggestion: If the dimensions of the 2d region to be searched are WxL, try the following.
IDL> s2d_out=SEARCH2D() IDL> bin=BYTARR(W,L) IDL> bin(s2d_out)=1 IDL> sbin=(SOBEL(bin) GT 1) IDL> wedge=WHERE((sbin GT 0) AND (bin GT 0))
Then WEDGE should contain the 1-d subscripts of the pixels on the perimeter of the region identified by SEARCH2D.

I've tried the above on a simple region with a piecewise linear perimeter, and it did OK. I hope it helps.

Dave	
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