Subject: Re: Problem with dist function in IDL
Posted by Michael Galloy on Mon, 13 Aug 2007 00:48:07 GMT
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On Aug 12, 8:41 am, ATKT <ankur.trigun...@gmail.com> wrote:
> Can somebody tell what exactly dist function is doing in IDL
> e.g x=dist(2,2)
> 0.000000 1.00000
> 1.00000 1.41421
> What is the meaning of this ouput
> x=dist(4,4)
> 0.000000 1.00000 2.00000 1.00000
> 1.00000 1.41421 2.23607 1.41421
> 2.00000 2.23607 2.82843 2.23607
> 1.00000 1.41421 2.23607 1.41421
>
> I am unable to understand the out put which is being generated.

The online help says this:

"The DIST function creates an array in which each array element value
is proportional to its frequency. This array may be used for a variety
of purposes, including frequency-domain filtering."

But I think about it in terms of plain Euclidean distance. Each array
element's value is the shortest distance to (0, 0) allowing for
wrapping around the edges. This has applications in creating kernels
for image processing filters (and is simple dataset for examples).

Mike
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