Subject: Re: PCOMP function

Posted by m218003 on Tue, 05 Oct 1999 07:00:00 GMT

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In article <7t9v2m\$lf5\$1@almendralejo.unex.es>, "Mhyst" <aplaza@unex.es> writes:

- > Hello!
- > I'm having some trouble with PCOMP function, which is used to perform
- > Principal Component Analysis. I have 8 different values associated with each
- > pixel of a 791x1128 image. This is a lot of information, and I want to
- > reduce it by PCA. My questions are:
- > 1) How do I allocate this information to apply the PCOMP function? The input
- > to the function must be an NxM array.
- > 2) This function seems to be very slow. I have tried applying the function
- > to a 256x256 array and it took it almost two hours in a Pentium 200 MHz with
- > 64Mb RAM. Is this normal?
- > Many thanks in advance...

>

I have never used PCOMP in IDL, but what I know from Principal component analysis suggests to me that you should assign the number of variables (8 in your case) to M and the values to N. You will have to treat your array as a vector, e.g. by converting it as follows:

s = size(data) vector = reform(data,s*s)

Or if you have IDL 5.2 and your data already stored as array(8,791,1128): s = size(data,/DIMENSIONS)

pcarr = reform(data,8,s*s[2])

Hope this helps a little, Martin

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