Subject: my array is too long for PCOMP?!
Posted by Thomas Nehls on Thu, 25 Mar 2004 11:01:31 GMT
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Hi,

I want to compute the principal components of an array with 3 colums and
around 56000 rows. All I get is "% Array has too many elements."
I am sure there is a very easy solution for this problem, there must be
a keyword or something... I tried [,/DOUBLE] but its not working.
?

Thanks in advance
Tom

Subject: Re: my array is too long for PCOMP?!
Posted by James Kuyper on Thu, 25 Mar 2004 15:07:12 GMT
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Thomas Nehls wrote:
>
> Hi,
>
> I want to compute the principal components of an array with 3 colums and
> around 56000 rows. All I get is "% Array has too many elements."

I tried the following:

```
seed = 12345L
data = randomn(seed,3,56000)
result = pcomp(data,coefficients=coef,eigenvalues=eigen)
```

There were no such problems. Are you sure you've got 3 columns and 56000
rows? If it's the other way around, pcomp() has lots of problems, since
it needs to create a 56000x56000 array internally. In IDL, like Fortran,
the number of columns is the length of the first dimension, unlike C,
where it's the last dimension. As a result, this is an easy mistake for
C programmers to make.