
Subject: Re: my array is too long for PCOMP?!

Posted by [James Kuyper](#) on Thu, 25 Mar 2004 15:07:12 GMT

[View Forum Message](#) <> [Reply to Message](#)

Thomas Nehls wrote:

>
> Hi,
>
> I want to compute the principal components of an array with 3 columns 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.
