Subject: Re: Sort
Posted by David Foster on Fri, 07 Nov 1997 08:00:00 GMT
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Peter Suetterlin wrote:
>
> In article <34604767.45FB@dl.ac.uk>,
> Neil Winrow <ncw@dl.ac.uk> writes:
>> Can anybody please offer their help!
>>
>> I have three sets of data, X, Y, Z. I read these sets of data into one
>> big array. I would like to sort one of the sets of data within the big
>> array, lets say sort the Z data. Is it then possible for the
>> corresponding values in the X and Y to also sort to the correct values.
>> Hope someone can understand, and offer me a solution.
>
> ix=sort(Z)
> Z=Z(ix)
> X=X(ix)
> Y=Y(ix)
>
> ... if I understood correct(?)
>
> Peter

So if your big array is created like:

```
A = [X, Y, Z]           ; Nx3
A = transpose(A)        ; 3xN
```

then it will be dimensioned Array[3,n_elements(X)]. So you can
sort it with:

```
ind_x = sort(A[0,*])

A[0,*] = (A[0,*])(ind_x)
A[1,*] = (A[1,*])(ind_x)
A[2,*] = (A[2,*])(ind_x)
```

This of course assumes that X,Y and Z all have the same number of
elements.

Dave

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