Subject: Re: a vector of indices of the largest elements in a vector not exceeding the elements of some other vector
Posted by Craig Markwardt on Thu, 12 Jul 2001 18:58:48 GMT

derek@milkyway.gsfc.nasa.gov (Derek Hullinger) writes:

> I have two vectors of different sizes (say, A and B):
>
> A contains floating point values that increase with index
> B contains floating point values
>
> I'd like to create a third vector, C (which would be the same size as
> B) such that:
>
> The nth element in C contains the index of the largest element in A
> that does not exceed the nth element in B.

What you are asking for is *exactly* what is provided by the
VALUE_LOCATE function, which appeared in IDL 5.3. If you are not so
up-to-date, then check out the slick replacement for VALUE_LOCATE on
my web page.

 c = value_locate(a, b)

Craig

http://cow.physics.wisc.edu/~craigm/idl/idl.html   (under Arrays)

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