
Subject: Find minimums in an array...

Posted by [engpcris](#) on Wed, 16 Oct 2002 18:08:16 GMT

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Hello

I'm looking for a fonction or an algorithm who could find the X minumun values in a array without having to use Sort (for a time reason) or Min (updating the array everytime)

For Example in a Array of 1000 elements I want to find the 10 smallest values.

Do you know any quick how to perfome it? (as I need to do this operation many times in a loop)

thank you very much for your help.

Fil

Subject: Re: Find minimums in an array...

Posted by [Stein Vidar Hagfors H\[1\]](#) on Tue, 22 Oct 2002 15:28:46 GMT

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JD Smith <jdsmith@as.arizona.edu> writes:

>

[..snip..]

> As always, you're mileage may vary. Check the performance on your

> equipment, using your data.

My compliments, JD!

My eyes used to glaze over whenever you reverse-index gurus touted your stuff, but with this clear-cut example I think I've finally gotten it! (And obviously, David has already graduated from histogram college!)

> Also, lest everyone think I'm out to turn their code into piles of

> HISTOGRAM spaghetti: just because a fast HISTOGRAM/REBIN/REFORM

> solution exists, doesn't mean you should always use it

Some of the spaghetti might benefit from being canned in a procedure, I'd say. Makes for meaningful programs & plenty of space to document the [sometimes arcane] logic behind the use of the histogram function! E.g. JDS_NSMALLEST(DATA,N).

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