Subject: Re: looking for sort procedure Posted by steinhh on Thu, 16 Jan 1997 08:00:00 GMT

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```
In article <32DD43B9.31DF@kfa-juelich.de>, "R. Bauer" <r.bauer@kfa-juelich.de> writes:
|> Hi,
|>
> It was surprising me that's idl's build-in sort procedure is very very
l> slow.
|>
> for this example it needs on may RS6000 AIX more than 2 minutes.
|> a = indgen(10000)
|> b = [a,a]
|> print,systime(0)
|> s = b(sort(b))
|> print,systime(0)
|>
l> end
|>
|>
> This is much too long.
|>
> Did someone have a better sort routine which I can have?
```

This was a big surprise to me as well, since I've reasons to believe that IDL's sorting algorithms (at least the ones used by the MEDIAN function) are quite good, and well implemented.

One thing though - you've probably tested the routine with one of the worst input arrays available, a pathological example that illustrates that sorting algorithm performance predictions are usually statistical in nature.

Compare the the following:

!!!

I.e., almost 300 times faster for random data (DEC Alphaserver).

But even if your application's data looks almost like your example, all is not lost... look at this:

So it shouldn't be too difficult to shake the data a bit before sorting to improve performance!

Stein Vidar H. Haugan