Subject: Re: looking for sort procedure
Posted by llobet on Tue, 21 Jan 1997 08:00:00 GMT
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In article <5blhri$ks1@post.gsfc.nasa.gov>, thompson@orpheus.nascom.nasa.gov
(William Thompson) writes:
=kak@sat.ipp-garching.mpg.de (Karl Krieger) writes:
=
=>"R. Bauer" <r.bauer@kfa-juelich.de> writes:
[...]
=>>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)
=
=>>end
=
=>>This is much too long.
=
=>Hi all,
=
=>there seems to be a bug in the implementation of this routine:
=>I tested it on a SUN Ultrasparc and on an IBM RS6000, which
=>has about the same speed (at least for the Monte Carlo simulation
=>coded in F77, which usually runs on these boxes).
=
=>Result for SUN: below 1 second, 6 seconds for a=lindgen(100000L)
=>Result for IBM: about 145 seconds
=
=>Is this a known bug/feature? There seems to be a major problem
=>either in the implementation of sort or in the way it uses
=>the machine's resources (bad optimization?).
=
=I also tried the above example on a DEC AXP 3000/600 where it took about 60
=seconds. I wonder if there's something in the code that is optimized for Sun
=workstations, maybe going back to the days when the first Unix port of IDL was
=called SunIDL?
=
=Bill Thompson

Here are the results on a DEC 3000 Model 400:

IDL. Version 3.6.1 (vms alpha).
[...]

```
IDL> a = indgen(10000) & b=[a,a]
IDL>  print,systime(0) & s = b(sort(b)) & print,systime(0)
Tue Jan 21 09:58:59 1997
Tue Jan 21 09:59:00 1997
IDL>
IDL> a=lindgen(100000L) & b=[a,a]
IDL> print,systime(0) & s = b(sort(b)) & print,systime(0)
Tue Jan 21 10:00:18 1997
Tue Jan 21 10:00:27 1997
```

Which IDL version are you using?

-xavier
