
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
