Subject: Re: idl speed question Posted by Michael Galloy on Sat, 14 Mar 2009 22:28:21 GMT View Forum Message <> Reply to Message

oxfordenergyservices@googlemail.com wrote: > I have the following strange result > > a=double(1.0) > for i=0,10000 do begin > for j=0,10000 do begin a = a + 1.0> endfor > endfor takes 13 seconds whereas > a=double(1.0) > b=double(1.0) > c = double(1.0)> d=double(1.0) > e = double(1.0)> for i=0,10000 do begin > for j=0,10000 do begin a = a + 1.0> b=b+1.0c = c + 1.0d=d+1.0e=e+1.0> endfor > endfor

> takes 60 seconds? I thought the overhead with IDL was in the loops

> rather than the computing?

The real killer for speed is number of statements (each one has to be be interpreted). Loops are bad only because they could execute a statement a possibly large number of times. So in your example, the first case has 10001 * 10001 statements while the second has 5 * 10001 * 10001 statements. So if the statements are doing the same amount of work, one would expect the second to take about 5 times more time.

The conclusion: try to do more work per statement.

Mike

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