

Re: Opinions on PGI vs. Lahey Fortran

Source: <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2005-01/0023.html>

From: Andy Nelson (andy_at_fake.lsu.edu)

Date: 01/03/05

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Richard E Maine <nospam@see.signature> wrote:
> *In article <crbsml\$60t\$I@emac1.ocs.lsu.edu>,
> Andy Nelson <andy@fake.lsu.edu> wrote:
>
>> a loop like this:
>>
>> do i=1,n
>>
>>
>> would continue indefinitely past its upper bound (n) until
>> it hit a segmentation violation or other similarly fatal error.
>
> There are some situations, discussed here in the past, where
> that kind of problem is common with many compilers. In
> particular, there are potential problems if n is the
> largest positive value for the kind of i. If that's the
> problem, I wouldn't consider it a bug; perhaps less than
> ideal behavior, but not a bug. (And, of course, I'm
> assuming that the problem doesn't relate to illegalities
> such as changing the value of i inside of the loop).
>
> Or maybe you hit an actual bug; I'm sure that some of
> the ones I hit were bugs. Just thought I'd mention the other
> possibilities for balance.
>*

I know and appreciate your thoroughness, Richard, from your long history on this group, including some responses to me as well. Thanks for that :-)

In this case, it was definitely a compiler bug. I'm pretty suspicious of any declaration (by me or anyone else) that "Its the compilers fault dammit!", since usually when that has happened in my case or in my experience it wasn't in the end. This one occurred in more than just one language supported by PGF (iirc a colleague found the same bug in some c/c++ code he had—I think it was c or c++ anyway).

