

Re: cmplx(0.,-x) or -j*x

Source: <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2005-05/msg00764.html>

- *From:* robin <robin_v@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 26 May 2005 12:29:08 GMT
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gh14tq5@xxxxxxxxxx writes: > Hi,

>

> Is there any speed advantage of using

>

> $z = \text{cmplx}(0,-x)$ over $z = -j*x$ (or vice-versa)

>

> where x is real and possible an array and $j = \sqrt{-1}$. Would this be

> something that is compiler dependent?

Isn't J going to be complex?

And therefore $j*x$ is going to involve scalar multiplication twice ($j*0$ and $j*x$).

This will be somewhat longer than using `cmplx`, which just does two moves (0 into the real part and $-x$ to the unreal part).

> Thanks,

> John

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