
Subject: Re: [DISCUSSION] Add 'complex' datatype, to Value too
Posted by [dolik.rce](#) on Fri, 10 Jun 2011 20:52:45 GMT

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Hi!

You are right about U++ missing the basic mathematical tools. As a physicist, I have needed the complex numbers in my programs many times. The same goes for many other mathematical tools.

Complex type doesn't really fit into Core, but what about creating a Math package, that would include such tools? It could also use the Eigen package (btw: I think there is already a complex numbers type in eigen, what about just wrapping that one?) and the fftw package you talked about. And possibly others, as they emerge.

About your proposed implementation: It looks quite good, from the quick look it has most of the basic functions I ever needed... I don't think I would really use a Value compatibility, but if you write it, I won't mind I have only one objection: The "complex::i" is not very useful. It is too long to use in equations I would prefer something like global constant/macro named just "I". In uppercase to avoid problems with "int i", which is on thousands of places in any program I know

Best regards,
Honza