
Subject: Re: [DISCUSSION] Add 'complex' datatype, to Value too
Posted by [kohait00](#) on Wed, 22 Jun 2011 11:12:16 GMT

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here comes a patch file for including complex as an additional basic datatype. thats why i have placed it in Defs.h, though it's 'math' related, but the other data types are math as well, right it contains the integration of it in Value as far as possible. but due to it beeing a class/struct and having ctor and operator=, it is not possible to use =Null / from-Value-conversion semantics. or at least i havent succeeded to do so. see my ComplexTest.

quick view, maybe anyone has an idea how to make this possible anyway..or leave it as issue.

NOTE: for successfull usage of std::complex (cdouble) in RichValue, the SetNull template usage change is needed. see my thread

http://www.ultimatepp.org/forum/index.php?t=msg&goto=32514&#msg_32514

attached is a complete patch for that.. (patch8)

```
//cdouble to value conversion test
```

```
Value v = RichToValue(y);
```

```
v = y;
```

```
//Value to cdouble conversion test
```

```
// x = v; //ambiguity in std::complex::operator=
```

```
x = v.operator cdouble(); //needs explicit call
```

```
#if flagMSC
```

```
//works for MSC, GCC has constructor amiguity
```

```
x = cdouble(v);
```

```
x = (cdouble)v;
```

```
#endif
```

```
// x = Null; //ambiguity in std::complex::operator=
```

```
x = Null.operator cdouble(); //needs explicit call
```

```
#if flagMSC
```

```
//works for MSC, GCC has constructor amiguity
```

```
x = cdouble(Null);
```

```
x = (cdouble)Null;
```

```
#endif
```

EDIT:

Topt.h:227

```
+NTL_MOVEABLE(cdouble);
```

File Attachments

- 1) [patchcomplex.patch](#), downloaded 574 times
 - 2) [ComplexTest.rar](#), downloaded 268 times
 - 3) [patch8.patch](#), downloaded 296 times
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