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=325 14&#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 515 times
2) ComplexTest.rar, downloaded 230 times
3) patch8.patch, downloaded 248 times