
Subject: this one worked for me
Posted by [kohait00](#) on Thu, 20 Aug 2009 09:48:37 GMT
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had to change it slightly..code is found at bottom

i havent been able to test it extensively, but it seems to work quite well..but so far it works for int and float

so incase anyone wants to have a number EditField without specifying Type directly..

so instead of

```
EditInt edit;
```

you can use

```
EditMinMax<DataType, ConvertT<DataType> > edit;
```

or event better

```
template <class DataType>  
EditNumber : public EditMinMax<DataType, ConvertT<DataType> > {}
```

```
EditNumber<float> edit;  
EditNumber<T> edit2;
```

now here is the code that i could compile.
thanks for help

```
template <class DataType>  
class ConvertT : public Convert  
{  
private:  
    DataType minval;  
    DataType maxval;  
    bool notnull;  
  
public:  
    //ConvertT() : minval(Null), maxval(Null), notnull(false) {}  
    ConvertT()  
    {  
        if( typeid(DataType) == typeid(int))
```

```

    || (typeid(DataType) == typeid(short))
    || (typeid(DataType) == typeid(char))
    || (typeid(DataType) == typeid(int64))
)
{
    minval = (DataType) (1<<(8*sizeof(DataType)-1)); //0x8000...
    maxval = (DataType) (minval - 1); //0x7FFF..
    notnull = true;
}

else if( (typeid(DataType) == typeid(unsigned int))
    || (typeid(DataType) == typeid(unsigned short))
    || (typeid(DataType) == typeid(unsigned char))
    || (typeid(DataType) == typeid(uint64))
)
{
    minval = 0;
    maxval = (DataType) (-1); //FFFF...
    notnull = true;
}

else
{
    minval = (DataType)0; //Null;
    maxval = (DataType)0; //Null;
    notnull = false;
}
}

virtual Value Scan(const Value& text) const {
    if (IsNotNull() && IsNull(text)) return NotNullError();
    Value v;
    if( (typeid(DataType) == typeid(int))
        || (typeid(DataType) == typeid(unsigned int))
        || (typeid(DataType) == typeid(short))
        || (typeid(DataType) == typeid(unsigned short))
        || (typeid(DataType) == typeid(char))
        || (typeid(DataType) == typeid(unsigned char))
    )
    {
        v = StdConvertInt().Scan(text);
    }
    else if( (typeid(DataType) == typeid(double))
        || (typeid(DataType) == typeid(float))
    )
    {
        v = StdConvertDouble().Scan(text);
    }
}

```

```

}
else if( (typeid(DataType) == typeid(uint64))
  || (typeid(DataType) == typeid(int64))
)
{
v = ConvertInt64().Scan(text); // No StdConvert64
}
else
v = StdConvert().Scan(text);

if ( !IsNull(v)
  && !IsNull(minval)
  && !IsNull(maxval)
  && IsNotNull()
)
{
DataType m;

if( (typeid(DataType) == typeid(int))
  || (typeid(DataType) == typeid(unsigned int))
  || (typeid(DataType) == typeid(short))
  || (typeid(DataType) == typeid(unsigned short))
  || (typeid(DataType) == typeid(char))
  || (typeid(DataType) == typeid(unsigned char))
)
{
m = (DataType)(int)(v);
}
else if( (typeid(DataType) == typeid(double))
  || (typeid(DataType) == typeid(float))
)
{
m = (DataType)(double)(v);
}
else if( (typeid(DataType) == typeid(uint64))
  || (typeid(DataType) == typeid(int64))
)
{
m = (DataType)(int64)(v);
}
else
{
return ErrorValue(UPP::Format(t_("Number must be a valid type. %s"),
Format((DataType)(0)))); //gives compile errors if no second format
}

if(m >= minval && m <= maxval)

```

```

    return v;
    return ErrorValue(UPP::Format(t_("Number must be between %s and %s."), Format(minval),
Format(maxval)));
}
return v;
}
virtual Value Format(const Value& q) const
{
// You may want to check the type of q here to ensure it matches DataType
return StdConvert().Format(q);
}

```

```

ConvertT<DataType>& MinMax(DataType _min, DataType _max) { minval = _min; maxval =
_max; return *this; }
ConvertT<DataType>& Min(DataType _min)           { minval = _min; return *this; }
ConvertT<DataType>& Max(DataType _max)           { maxval = _max; return *this; }
ConvertT<DataType>& NotNull(bool b = true)        { notnull = b; return *this; }
ConvertT<DataType>& NoNotNull()                   { return NotNull(false); }
DataType      GetMin() const                     { return minval; }
DataType      GetMax() const                     { return maxval; }
bool          IsNotNull() const                   { return notnull; }
};

```