CoCoA-5 - Slug #31

theValue makes copy

15 Nov 2011 11:21 - Anna Maria Bigatti

Status: In Progress Start date: 15 Nov 2011

Priority: Normal Due date:

Assignee: Anna Maria Bigatti % Done: 60%

Category:Parser/InterpreterEstimated time:10.00 hoursTarget version:CoCoA-5.4.2Spent time:6.05 hours

Description

in Interpreter.H

template <typename T> typename CoCoALibType<T>::type theValue(boost::intrusive_ptr<T> x);

template <> BigInt theValue<BigIntValue>(boost::intrusive_ptr<BigIntValue> x);
template <> const BigInt theValue<const BigIntValue>(boost::intrusive_ptr<const BigIntValue> x);

(...)

couldn't it be

template <> const BigInt& theValue<const BigIntValue>(boost::intrusive_ptr<const BigIntValue> x);

Related issues:

Related to CoCoA-5 - Slug #687: Builtin fn makes unnecessary copy of arg	Closed	19 Apr 2015
Related to CoCoA-5 - Slug #1597: GetRow/GetRows are extraordinarily slow	Closed	27 May 2021
Related to CoCoA-5 - Slug #1228: SLUG: filling an array	In Progress	30 Sep 2018
Related to CoCoA-5 - Feature #1112: New function: IsEmpty	Closed	27 Oct 2017
Related to CoCoA-5 - Bug #946: Function "ideal" evaluates the argument twice	Resolved	17 Oct 2016

History

#1 - 15 Nov 2011 13:59 - Anna Maria Bigatti

- Subject changed from the Value make copy to the Value makes copy

#2 - 15 Nov 2011 14:00 - Anna Maria Bigatti

- Category set to Parser/Interpreter

#3 - 09 Feb 2012 16:56 - Giovanni Lagorio

- % Done changed from 0 to 50

The solution is to implement a move constructor in BigInt (and every "huge" data structure ;-))

#4 - 17 Jul 2012 14:37 - Anna Maria Bigatti

- Status changed from New to In Progress

open until we make experiments with C++11

#5 - 21 Sep 2012 14:32 - Anna Maria Bigatti

Giovanni Lagorio wrote:

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The solution is to implement a move constructor in BigInt (and every "huge" data structure ;-))

Giovanni: do you have a easy reference/example about implementing and using a move constructor?

Do I need to do it **only** for the BigInt class (say) or also for the cocoa-5 wrapper class (I guess not, since that is a pointer....)

#6 - 02 Apr 2014 17:33 - Anna Maria Bigatti

- Target version set to CoCoA-5.1.0 Easter14

#7 - 17 Apr 2014 19:03 - John Abbott

- Target version changed from CoCoA-5.1.0 Easter14 to CoCoA-5.?.?

#8 - 22 Jan 2021 09:35 - Anna Maria Bigatti

- Target version changed from CoCoA-5.?.? to CoCoA-5.4.2

#9 - 28 May 2021 15:24 - John Abbott

- Related to Slug #1597: GetRow/GetRows are extraordinarily slow added

#10 - 28 May 2021 17:59 - Anna Maria Bigatti

- Assignee set to Anna Maria Bigatti
- Target version changed from CoCoA-5.4.2 to CoCoA-5.4.0
- % Done changed from 50 to 60

The (template) function the Value makes a copy of

typename CoCoALibType<T>::type

so I changed it so that it returns

const typename CoCoALibType<T>::type&

and modified accordingly all its implementations... relying on CVS to recover the original code ;-)

Well, it works, all tests pass. Too good to be true?

#11 - 28 May 2021 18:01 - Anna Maria Bigatti

Now investigate why the code is split in Interpreter.H and BuiltInOneLiners.H

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#12 - 28 May 2021 20:35 - John Abbott

- Assignee deleted (Anna Maria Bigatti)
- Target version changed from CoCoA-5.4.0 to CoCoA-5.4.2
- % Done changed from 60 to 50

Current plan of action:

- Anna will check in her changes (hinted at above)
- Anna will make an interim release of the source (so that "alpha testers" can help) -- maybe wait about a month so that problems are likely to surface
- Find out why the template fns are defined in BuiltinOneLiners.H but also declared in Interpreter.H; hopefully rectify
- probably rename the Value to something indicating that it returns a reference.
- investigate whether it makes sense to have almost duplicate template fns RefTo (if so, document the difference)

#13 - 28 May 2021 20:37 - John Abbott

- Related to Slug #1228: SLUG: filling an array added

#14 - 28 May 2021 20:42 - John Abbott

- Related to Feature #1112: New function: IsEmpty added

#15 - 29 May 2021 15:37 - John Abbott

- Assignee set to Anna Maria Bigatti
- Target version changed from CoCoA-5.4.2 to CoCoA-5.4.0
- % Done changed from 50 to 60

Correcting earlier mistake (when I forgot to reload the page)

#16 - 01 Jun 2021 11:46 - Anna Maria Bigatti

John Abbott wrote:

Current plan of action:

• Find out why the template fns are defined in BuiltinOneLiners.H but also declared in Interpreter.H; hopefully rectify

I think this was because I implemented RefTo in BuiltinOneLiners.H, and they are very similar. Now I moved the definition of theValue back to Interpreter.H and it works fine.

• Anna will check in her changes (hinted at above)

done

• Anna will make an interim release of the source (so that "alpha testers" can help) -- maybe wait about a month so that problems are likely to surface

done with "final" 5.3.3c

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#17 - 18 Feb 2022 16:42 - Anna Maria Bigatti

- Target version changed from CoCoA-5.4.0 to CoCoA-5.4.2

#18 - 14 Mar 2023 22:12 - John Abbott

- Related to Bug #946: Function "ideal" evaluates the argument twice added

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