CoCoA-5 - Design #525

BuiltInFunctions: evalArgAsT1OrT2, evalArgAsT1OrT2OrT3, ... last argument

08 Apr 2014 09:40 - Anna Maria Bigatti

Status:	Closed	Start date:	08 Apr 2014	
Priority:	Normal	Due date:		
Assignee:	Anna Maria Bigatti	% Done:	100%	
Category:	Cleaning	Estimated time:	2.50 hours	
Target version:	CoCoA-5.1.1 Seoul14	Spent time:	2.75 hours	
Description				
	3	nent (bool) giving isFirst		
Should we change E It would be a good id	EvalArgAsT1OrT2 so that it behaves dea, but it is extremely delicate work arg in all functions now is int (usually	s like the others? because of silent conversions b	etween int and b	pol.
Should we change E It would be a good id	EvalArgAsT1OrT2 so that it behaves dea, but it is extremely delicate work	s like the others? because of silent conversions b	etween int and b	ool.
Should we change E It would be a good id 2014-08 done: last a Related issues:	EvalArgAsT1OrT2 so that it behaves dea, but it is extremely delicate work	s like the others? because of silent conversions b	etween int and be	ool. 05 Jul 2013
Should we change E It would be a good id 2014-08 done: last a Related issues: Related to CoCoA-5 - F	EvalArgAsT1OrT2 so that it behaves dea, but it is extremely delicate work arg in all functions now is int (usually	s like the others? because of silent conversions b called which)		
Should we change E It would be a good id 2014-08 done: last a Related issues: Related to CoCoA-5 - F Related to CoCoA-5 - S	EvalArgAsT1OrT2 so that it behaves dea, but it is extremely delicate work arg in all functions now is int (usually Feature #384: IsZero for matrix	s like the others? because of silent conversions b called which) /Interpreter	Closed	05 Jul 2013

History

#1 - 08 Apr 2014 11:02 - John Abbott

I like the idea of making them all "compatible".

Another option would be to have an enum with one value for each type, and the function returns the enum value corresponding to the type actually found. This would make the order of the types in the template irrelevant:

```
TypeEnum ActualType;
auto arg1 = EvalAsT10rT20rT3<BigInt, BigRat, RingElem>(ARG(1), ActualType);
switch (ActualType)
{
    case BigIntType: ...
    case BigRatType: ...
    case RingElemType: ...
}
```

I don't guarantee that this could be realised...

#2 - 15 Jul 2014 11:02 - Anna Maria Bigatti

- Subject changed from BuiltInFunctions: EvalArgAsT1OrT2 to BuiltInFunctions: evalArgAsT1OrT2

- Category changed from Parser/Interpreter to Cleaning
- Status changed from New to Resolved
- Assignee set to Anna Maria Bigatti
- % Done changed from 0 to 80

We agreed that it would be handy to have the same interface for

evalArgAsT1orT2 and evalArgAsT1orT2orT3.

The last argument of **evalArgAsT1orT2** is the bool **isT1**, whereas in the new view it should be an int **which**: this is the situation isT1 true would give which 1 that is T1

isT1=true would give which=1, that is T1

isT1=false would give which=0, that is invalid, but it usually used as !isT1, that is T2.

HOWEVER I left a non-implemented version with bool so that passing bool instead of int would not link.

All done: it works

#3 - 15 Jul 2014 12:27 - Anna Maria Bigatti

- Status changed from Resolved to Feedback
- % Done changed from 80 to 90

cvs-ed

#4 - 27 Aug 2014 18:09 - Anna Maria Bigatti

- Tracker changed from Bug to Design
- Subject changed from BuiltInFunctions: evalArgAsT1OrT2 to BuiltInFunctions: evalArgAsT1OrT2, evalArgAsT1OrT2OrT3, ... last argument
- Status changed from Feedback to Closed
- % Done changed from 90 to 100