CoCoA-5 - Bug #108

Unhandled division by zero in FFp

19 Mar 2012 14:36 - John Abbott

Status:ClosedStart date:19 Mar 2012Priority:NormalDue date:Assignee:Anna Maria Bigatti% Done:100%

Category:Parser/InterpreterEstimated time:2.00 hoursTarget version:CoCoA-5.0.2Spent time:2.00 hours

Description

Here's a sample case

```
Use ZZ/(7)[x]; f:=2+x-x; f/7; --> ERROR: Division by zero or by a zero-divisor (1/7)*f; --> NASTY ERROR!!
```

History

#1 - 19 Mar 2012 17:14 - Anna Maria Bigatti

- Category set to Parser/Interpreter
- Status changed from New to Resolved
- Assignee set to Anna Maria Bigatti
- Target version set to CoCoA-5.0.2
- % Done changed from 0 to 90
- Estimated time set to 2.00 h

Fixed, but the error is indicated at the operator

The function "TypeValue::convert" in Interpreter.C throws when tying to covert 1/7 into a RingElem in RingOf(f). It does not have enough information to indicate where the error is.

So I added 2 "try.. catch" in "RuntimeEnvironment::binaryOperatorDispatch" around "convert" for left-to-right-type and right-to-left-type. These 2 are the only calls to "Type::convert".

#2 - 20 Mar 2012 16:21 - John Abbott

- Status changed from Resolved to Closed
- % Done changed from 90 to 100

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