

## CoCoA-5 - Bug #1438

### ABORT for unterminated string literal

05 Mar 2020 16:41 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	05 Mar 2020
<b>Priority:</b>	Immediate	<b>Due date:</b>	
<b>Assignee:</b>	John Abbott	<b>% Done:</b>	100%
<b>Category:</b>	bug	<b>Estimated time:</b>	1.66 hour
<b>Target version:</b>	CoCoA-5.3.0	<b>Spent time:</b>	1.65 hour
<b>Description</b> Sending just a single " double quote char will crash CoCoA-5.  I hope to fix later... must dash now.			
<b>Related issues:</b> Related to CoCoA-5 - Feature #1399: CoCoA-5 interpreter: idle/busy indicator			
		<b>Closed</b>	<b>21 Jan 2020</b>

### History

#### #1 - 05 Mar 2020 16:42 - John Abbott

May be a consequence of allowing a NUL inside a string?  
Surely my fault, anyway :-(  
Something to do tonight... sigh!

#### #2 - 05 Mar 2020 22:56 - John Abbott

- Status changed from New to In Progress  
- % Done changed from 0 to 10

The function for reading a string literal (which I hacked), correctly throws an "unclosed literal" exception when the newline is encountered. This exception is caught in Interpreter.C at line 2917, and printed in line 2918.

It seems that ewsp.needsRecovery is not set, so it does not try to recover (whatever that means).  
It then calls continue (still inside the exception handler).

Maybe this is where I broke something, because I added a do...while loop.

I'll continue tomorrow...

#### #3 - 06 Mar 2020 10:15 - John Abbott

- % Done changed from 10 to 50

Indeed, my suspicion last night was correct.  
Now I am considering how best to fix the code. The fix should be ready by lunchtime :-)

#### #4 - 06 Mar 2020 12:05 - John Abbott

- Status changed from In Progress to Feedback  
- % Done changed from 50 to 90

- Estimated time set to 1.66 h

The fix seems reasonable, and some testing suggests that it is working OK.

Now I wonder whether it was even worth it...

```
n := factorial(10^7);
```

Logs **R** and then **W2.5**; so the GUI would indicate that it took about 2.5s to compute.

```
n := factorial(10^7); m := 1;
```

Logs R and W2.5 as before, but then immediately afterwards it logs **R** and **W0**; so the GUI would indicate 2.5s just for an instant, and then overwrite it with 0s.

If the line were sent via SourceRegion then a single log message would be produced (indicating the total time for all commands in the region).

#### #5 - 06 Mar 2020 12:19 - John Abbott

- Related to Feature #1399: CoCoA-5 interpreter: idle/busy indicator added

#### #6 - 09 Mar 2020 15:28 - John Abbott

- Status changed from Feedback to Closed

- % Done changed from 90 to 100

Closing