# CoCoA-5 - Bug #344

# basic\_string::erase error in interpreter

24 Apr 2013 15:15 - John Abbott

Status:	Closed	Start date: 24	4 Apr 201	3
Priority:	High	Due date:		
Assignee:	John Abbott	% Done: 10	00%	
Category:	Parser/Interpreter	Estimated time: 0.	.00 hour	
Target version:	CoCoA-5.0.3	Spent time: 3	.20 hours	
Description				
OrderMatrix := [0,		(without final newline) to send it to CoCo	Α.	
This sead uses a lass	ic_string::erase error!!			
This produces a bas	ic_stringerase errors			
Related issues:				

### History

#### #1 - 24 Apr 2013 15:16 - John Abbott

Found by Giulia Marconi.

## #2 - 24 Apr 2013 18:00 - John Abbott

- Assignee set to John Abbott

The same error occurs even when the input is syntactically correct (but without final newline):

Adding a final space did not eliminate the error.

The error does not arise if the input resides on a single line [without TAB char]

The error **does not arise** if the second line does not contain a TAB char.

The error does arise with a single line containing a TAB char!

#### #3 - 26 Apr 2013 11:22 - John Abbott

I'm 99% certain I know what the problem is: when emacs generates the SopurceRegion command it uses column position as a character count, but this is **not valid** if there are TAB characters in the line!!

I note that CoCoAInterpreter does not make a mistake when indicating the position of an error in a line because it prints out a TAB as just a single space. Presumably the Emacs code must compute the difference between the values of (point) at the start of the line and at the region end in the line.

#### #4 - 27 Apr 2013 22:25 - John Abbott

- Status changed from New to Resolved

- % Done changed from 0 to 80

I believe I have found and resolved the problem. Make the following change:

```
(defun cocoa5-column-number-at-pos (pos)
(save-excursion
 (progn
   (goto-char pos)
   (setq end-pt (point))
   (forward-line 0) ;; move to beginning of line
   (setq start-pt (point))
   (- end-pt start-pt))))
```

Hmm, maybe I should change the fn name. **Done** new name is cocoa5-char-index-in-line

The trouble was indeed that column count is not the same as character count.

I should probably also add a better error check in the SourceRegion command. **Done** error message is a bit cryptic (but I doubt it matters because no one should ever type in the command by hand).

#### #5 - 07 May 2013 23:33 - John Abbott

An error is reported if the region selected starts after the last character on a line (e.g. starting at an empty line). The problem is that Emacs indicates a column position "one after the last char" (presumably the position of the newline).

Update: fixed, change line 110 in LineProviders.C (will check in tmrw)

### #6 - 20 May 2013 11:25 - John Abbott

- Status changed from Resolved to Feedback

- % Done changed from 80 to 90

No further problems have come to light in the last 2 weeks, so I'm changing the state to feedback (hoping to close the issue before the COCOA school).

## #7 - 24 May 2013 18:55 - John Abbott

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

No futher problems found in 3 weeks, so closing this issue.