

CoCoA-5 - Feature #1541

foreach with ref to list entry?

01 Dec 2020 13:58 - John Abbott

Status:	New	Start date:	01 Dec 2020
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	CoCoA-5 function: new	Estimated time:	0.00 hour
Target version:	CoCoA-5.4.2	Spent time:	0.40 hour
Description <p>Julian Danner asks whether it would be possible to have a version of foreach which operates on a reference to the list entry.</p> <p>Currently this does not change L</p> <pre>L := [1,2,3]; foreach X in L do if X > 2 then X := 0; endif; endforeach;</pre> <p>The actual implementation was a list of RECORDs where it made sense to update a field of some of the records.</p>			

History

#1 - 01 Dec 2020 14:03 - John Abbott

If we choose to extend CoCoA-5, there are 2 obvious approaches:

- modify foreach so that it uses references --- obviously not backward compatible!
- make a new loop command (e.g. foreachref) --- obviously entails modifying the interpreter significantly

At the moment I am undecided whether the proposal is a good idea. The man page for foreach should make it clear that entries in the original list cannot be modified by changing the value of the loop variable. I have made a first, simple change to the man page.

#2 - 15 Jan 2024 19:39 - John Abbott

Postponing this issue because it requires discussion, and could be tricky/lengthy if we opt to to make the change. I have made a further minor improvement to the documentation for foreach.