

CoCoA-5 - Design #1495

Package exporting nothing?

02 Oct 2020 11:30 - Anna Maria Bigatti

Status:	Closed	Start date:	02 Oct 2020
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	enhancing/improving	Estimated time:	3.51 hours
Target version:	CoCoA-5.4.0	Spent time:	3.45 hours
Description			
It may be useful to make a package exporting no function: currently it gives a warning. Choose an explicit syntax to make it safe and silent.			
Related issues:			
Related to CoCoA-5 - Design #1477: Packages: questions from Andraschko		Closed	06 Aug 2020
Related to CoCoA-5 - Support #1498: Export many names or just one?		Closed	03 Oct 2020
Related to CoCoA-5 - Design #1501: testing for syntax errors		Rejected	07 Oct 2020

History

#1 - 02 Oct 2020 11:31 - Anna Maria Bigatti

- Related to Design #1477: Packages: questions from Andraschko added

#2 - 02 Oct 2020 11:31 - Anna Maria Bigatti

- Category set to enhancing/improving
- Status changed from New to In Progress
- Assignee set to John Abbott
- Target version set to CoCoA-5.4.0
- % Done changed from 0 to 10
- Estimated time set to 3.00 h

From [#1477](#) point (C)

proposed syntax **export skip**;

#3 - 02 Oct 2020 14:03 - John Abbott

- % Done changed from 10 to 30

I have written a first prototype. It compiles and seems to do the right thing, but I must do some more testing. The lexer+parser+interpreter is "self-documenting" :-)

#4 - 02 Oct 2020 14:22 - John Abbott

Here are the tests we should make:

- (1) package with no export commands (warning, as now)
- (2) package with just export skip (now warning, exports nothing)
- (3) package with export name(s) followed by export skip (error)
- (4) package with export skip followed by more export commands
- (5) export followed by several names incl skip (or even skip appearing more than once)
- (6) similar to above but export being called "too late" in the file

#5 - 02 Oct 2020 21:05 - John Abbott

Prototype still needs to be cleaned... not today!

#6 - 03 Oct 2020 17:08 - John Abbott

- % Done changed from 30 to 50

I am writing tests for package, and have a question.

If the input contains something like **export abc,skip**;
an error is reported (cannot "skip" and export names).

My current impl then goes on to check that the fn abc is actually defined (if not, a second error is generated).

If the input is **export skip,abc**; then there is no check that abc is actually defined.

Actually, in this case the error mesg says that it expected a semicolon after skip (which is correct, but perhaps not entirely helpful?)

Comments? Opinions?

#7 - 03 Oct 2020 17:51 - John Abbott

- Related to Support #1498: Export many names or just one? added

#8 - 07 Oct 2020 12:04 - John Abbott

- Related to Design #1501: testing for syntax errors added

#9 - 16 Oct 2020 15:42 - John Abbott

I seem to have lost the test file I used for the revised package parser. Here is a short version:

```
package $pkg1; export skip; endpackage; -- correct
package $pkg2; endpackage; -- warning: no exports
package $pkg3; export skip; export abc; endpackage; -- error: cannot export after skip
package $pkg4; export abc; export skip; endpackage; -- error: cannot export skip after exporting names
package $pkg5; export skip; export skip; endpackage; -- error cannot export after skip
!!OBSOLETE!! package $pkg6; export abc,skip; endpackage; -- error unexpected keyword
!!OBSOLETE!! package $pkg7; export skip,abc; endpackage; -- error expected semicolon
```

PS when an error occurs, it seems that we do not need endpackage... at least the keyword endpackage triggers another error (not so helpful)

NOTE no longer allow many names after **export** -- see issue [#1498](#)

#10 - 16 Oct 2020 15:48 - John Abbott

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

I have checked in my code (after some *ad hoc* testing).

I have slightly changed what we agreed via skype (so that the inpl would be simpler and clearer, but the error mesgs should still be fairly helpful).

#11 - 08 Jan 2021 11:51 - Anna Maria Bigatti

- *Status changed from Feedback to Closed*
- *% Done changed from 90 to 100*
- *Estimated time changed from 3.00 h to 3.51 h*

Tested. OK.