

## CoCoA-5 - Feature #1246

### Revive old CoCoA4 package called "cocoa5.cpkg"

21 Feb 2019 12:05 - John Abbott

<b>Status:</b>	Feedback	<b>Start date:</b>	21 Feb 2019
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assignee:</b>	Anna Maria Bigatti	<b>% Done:</b>	90%
<b>Category:</b>	CoCoA-4 function to be added	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoA-5.4.4	<b>Spent time:</b>	8.00 hours
<b>Description</b> Kreuzer wants to use various functions (for remote procedure calls) which were defined in the package <b>cocoa5.cpkg</b> .  Revive the relevant parts of the code.			
<b>Related issues:</b>			
Related to CoCoA-5 - Support #1240: John's visit Feb 2019		<b>Closed</b>	<b>08 Feb 2019</b>
Related to CoCoALib - Design #360: CoCoAServer: what future, what issues?		<b>New</b>	<b>27 May 2013</b>

### History

#### #1 - 21 Feb 2019 12:10 - John Abbott

The package name should be changed. My temporary version is called **OperationCommunication.cpkg5**.

The old code is essentially undocumented, and some parts are rather untransparent.

Several parts do not need to be translated (*e.g.* those parts making CoCoALib functions available to CoCoA4).

#### #2 - 11 Mar 2019 18:53 - John Abbott

- Related to Support #1240: John's visit Feb 2019 added

#### #3 - 18 Mar 2019 14:38 - John Abbott

Anna has cleaned the file so that it is syntactically OK.

Now we must look at the semantics.

#### #4 - 18 Mar 2019 14:42 - John Abbott

Here are the aspects to be addressed next:

- how to serialize rings (*i.e.* follow previous format, but passing rings)
- previously there were some nasty hacks to handle "parameters"; clean this up!
- the new impl of OpenSocket creates a record with fields send and rcv; perhaps try to do the same when writing and reading files?

#### #5 - 19 Mar 2019 15:16 - John Abbott

- Status changed from New to In Progress

- Assignee set to Anna Maria Bigatti

- % Done changed from 0 to 20

#### #6 - 01 Oct 2019 14:25 - John Abbott

- Target version changed from CoCoA-5.3.0 to CoCoA-5.4.0

**#7 - 04 Mar 2021 17:31 - John Abbott**

- Priority changed from High to Urgent

**#8 - 04 Mar 2021 17:38 - Anna Maria Bigatti**

For Anna: look for some examples, and try to remember how it works

**#9 - 04 Mar 2021 17:44 - John Abbott**

Example of the data format can be found in the following file

```
/home/jabbott/Work/CoCoALib-0.99/src/server/benchmarks/inputs.tgz
```

on my computer...

**#10 - 10 Jun 2021 15:35 - John Abbott**

I now have a version of OperationCommunication.cpkg5 which works for some simple examples. Bernhard is working to make it better.

Still need to remove dependency on global variable MEMORY, and perhaps remove the need to call Initialize.

**#11 - 10 Jun 2021 15:35 - John Abbott**

- Related to Design #360: CoCoAServer: what future, what issues? added

**#12 - 12 Oct 2021 09:26 - John Abbott**

- % Done changed from 20 to 70

I think this has progressed but nothing was noted here. Increased %done.

**#13 - 03 Feb 2022 19:49 - John Abbott**

- Target version changed from CoCoA-5.4.0 to CoCoA-5.4.2

**#14 - 07 Oct 2022 14:38 - John Abbott**

**Bernhard** in comment 10 above, it is reported you had an improved version (of OperationCommunication.cpkg5). Is this true? Do I have your improved version?

It would be good to close this issue.

**#15 - 07 Oct 2022 14:40 - John Abbott**

Referring to comment 10: the function Initialize now does nothing; all references to MEMORY are commented out).

**#16 - 09 Mar 2023 22:45 - John Abbott**

- Status changed from In Progress to Feedback

- % Done changed from 70 to 90

Is there any news from Passau about this issue?

Is there an improved version of **OperationCommunication.cpkg5**?

**#17 - 14 Mar 2023 11:58 - Anna Maria Bigatti**

- *Target version changed from CoCoA-5.4.2 to CoCoA-5.4.4*