

## CoCoALib - Design #1628

### Unused variables, params, data members

03 Nov 2021 17:59 - John Abbott

<b>Status:</b>	In Progress	<b>Start date:</b>	03 Nov 2021
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	10%
<b>Category:</b>	Tidying	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoALib-0.99880	<b>Spent time:</b>	1.40 hour
<b>Description</b>			
Anna reports that clang issues warning about unused data-members (in MatrixFpNonRed). The data-members are used when debugging is active, but not otherwise. How best to implement this (and keep good readability)?			

#### History

##### #1 - 03 Nov 2021 18:01 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 10

clang is probably correct to report that the data-members are unused. Their presence makes objects of this class needlessly large.

How to express this neatly in the source code?

Note that several places need to be modified.

##### #2 - 03 Nov 2021 18:03 - John Abbott

The KISS solution would be to use the CoCoA\_DEBUG macro. I'm not keen to use macros (esp. to make #ifdef blocks of code).

##### #3 - 03 Nov 2021 18:55 - John Abbott

I have just implemented the KISS approach: namely 2 #ifdef blocks. Everything compiles, & all tests pass (both with and without debugging).

I now think that this KISS approach is OK for the current situation.

But if we encounter future similar situations then maybe a "more sophisticated" approach is warranted.

There are some suggestions at <https://stackoverflow.com/questions/1486904/how-do-i-best-silence-a-warning-about-unused-variables>

##### #4 - 05 Nov 2021 15:54 - John Abbott

- Target version changed from CoCoALib-0.99800 to CoCoALib-0.99850

I tried changing CoCoA\_ASSERT so that it expanded to (void)sizeof(cond), **BUT** this worked badly because some assertions needed fns which are included only if CoCoA\_DEBUG is defined (the include was inside an ifdef block). So I reverted to the old solution: namely empty.

Anna suggest maybe a macro something like \*IF\_DEBUG(code) which expands to nothing when debugging is off, and otherwise expands to code.

We shall postpone this issue to next version.

**#5 - 08 Mar 2023 19:55 - John Abbott**

- Target version changed from *CoCoALib-0.99850* to *CoCoALib-0.99880*

**#6 - 11 Mar 2023 12:29 - John Abbott**

Several functions have an unused parameter `CheckForTimeout`.  
It would be nice to activate the time-out for these fns.  
Can we do this for the upcoming release?