CoCoALib - Feature #1793

Use ErrorContext instead of string FnName

16 Mar 2024 11:06 - John Abbott

Status:	In Progress	**Start date:**	16 Mar 2024
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	60%
Category:	Improving	**Estimated time:**	0.00 hour
Target version:	CoCoALib-0.99880	**Spent time:**	3.50 hours

Description

There is now a class **ErrorContext** and macro CoCoA_ERROR_CONTEXT for recording:

- function name
- file name
- line number

Consider using ErrorContext instead of a string for FnName.

NB C++20 seems to offer an official version of ErrorContext

Related issues:

Related to CoCoALib - Bug #1726: Dangling references to temporaries	**Closed**	**08 Mar 2023**
Related to CoCoALib - Design #1792: CpuTimeOut: arg of type ErrorContext?	**New**	**15 Mar 2024**
Related to CoCoALib - Design #582: Error codes: use same code for "not poly r...	**New**	**07 Jul 2014**

History

#1 - 16 Mar 2024 11:07 - John Abbott

- Related to Bug #1726: Dangling references to temporaries added

#2 - 16 Mar 2024 11:11 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 60

While resolving issue [#1726](#) I needed to call some arg-check functions specifying where in the source the arg-check was called.
By chance I noticed that we have ErrorContext and the macro (since when? Is there any doc?)
I have modified most calls, but left the old code sommented out -- hope to delete in a couple of weeks.

See also documentation about **std::source_location** for instance at the following link
https://en.cppreference.com/w/cpp/utility/source_location

#3 - 16 Mar 2024 11:14 - John Abbott

- Related to Design #1792: CpuTimeOut: arg of type ErrorContext? added

#4 - 21 Mar 2024 20:22 - John Abbott

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

#5 - 26 Mar 2024 11:50 - Anna Maria Bigatti

Added also to NewFreeModuleForSyz.

#6 - 26 Mar 2024 14:37 - Anna Maria Bigatti

- Related to Design #582: Error codes: use same code for "not poly ring" and "not elem poly ring" added