CoCoALib - Design #1771

Hadamard bound: field names

24 Nov 2023 12:12 - John Abbott

Status:	Closed	**Start date:**	24 Nov 2023
Priority:	Normal	**Due date:**	
Assignee:	John Abbott	**% Done:**	100%
Category:	Renaming	**Estimated time:**	0.95 hour
Target version:	CoCoALib-0.99850	**Spent time:**	0.95 hour

Description

CoCoALib and CoCoA-5 offer a function to compute Hadamard's bound (for determinants).
The function actually compute the *square* of the bounds (which is "rational", *i.e.* needs not algebraic extension).
Consequently the function is called **HadamardBoundSq**. The result is a record/struct whose fields have names without
the Sq suffix (even though the value is the square).
Should the field names also include the suffix Sq?

Also: the Hadamard bound can be computed for non-square matrices, but I've not idea if it has any meaning. Currently, CoCoA does
not give an error if the supplied matrix is not square -- maybe it should give an error?

Opinions?

History

#1 - 01 Dec 2023 21:16 - John Abbott

- Status changed from New to Resolved

- Assignee set to John Abbott

- % Done changed from 0 to 80

During a telephone discussion with Anna, we decided it makes sense to change the field names. Of course, this is not backward compatible, but we
are hoping that few people will be affected, and that the new names are better for future users.

I shall check in shortly.

#2 - 22 Dec 2023 21:32 - John Abbott

- Status changed from Resolved to Closed

- % Done changed from 80 to 100

- Estimated time set to 0.95 h

I have updated the doc. The new field names are **myRowBoundSq** and **myColBoundSq**.
Closing.