

NemoMath - Bug #1579

Export two configuration trees, one for Eigen2 and one for Eigen3

07/29/2013 02:08 PM - Anonymous

Status:	Closed	Start date:	07/29/2013
Priority:	High	Due date:	
Assignee:	A. Tuleu	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	NemoMath 0.4		

Description

Via Alexandre Tuleu, regarding projects that use libraries, that use / depend on eigen3:

I see that NemoMath as a eigen 3 support. Furthermore NemoMath is header only library. And the debian packaging is authorizing the two. I would suggest:

* NemoMath should export two configuration tree (NemoMathConfig.cmake and NemoMath.pc) one for Eigen2 (takes the same name) and one for Eigen3 (Maybe called NemoMath-Eigen3).

* Makes rci / cca / rst depends on NemoMath-Eigen3 rather than Eigen.

Associated revisions

Revision 289 - 07/31/2013 05:45 PM - anordman

Exporting two configurations, one explicitly for eigen3

- Nemomath now exports two configurations (pkgconfig and cmake config)
- The default one works with eigen2 and eigen3, but prefers eigen2 over eigen3 with eigen2 support
- The second one explicitly depends on eigen3 with eigen2 support, if eigen3 is installed

fixes #1579

Revision 290 - 07/31/2013 05:49 PM - anordman

Suggest libeigen3-dev debian package

- Now that we build an explicit eigen3 configuration, the debian package suggests to install libeigen3-dev

refs #1579

Revision 291 - 07/31/2013 05:51 PM - anordman

Added missing files

refs #1579

Revision 292 - 07/31/2013 05:59 PM - anordman

Added missing files

refs #1579

Revision 293 - 08/06/2013 11:42 AM - anordman

Nemomath package needs to depend on libeigen2-dev

- The nemomath debian package needs to depend on libeigen2-dev, because the default configuration of nemomath requires eigen2
- Eigen3 also possible, so libeigen3-dev is only suggested

refs #1579

Revision 305 - 10/04/2013 05:26 PM - anordman

Let downstream projects enforce dependency to eigen3 instead of eigen2

- By setting the CMAKE variable NEMOMATH_ENFORCE_EIGEN3 to 1/On/true, NemoMath exports eigen3 dependency and not eigen2 dependency (default)
- Previous solution, to provide a separate cmake Config file is inconvenient, since the file naming prevents cmake to find it with its default mechanism

refs #1579

History

#1 - 07/29/2013 02:11 PM - Anonymous

I would vote in favor of providing two configurations (for eigen2 and eigen3). I don't see any problems with that.

#2 - 07/31/2013 05:41 PM - Anonymous

- Status changed from *Feedback* to *In Progress*
- Assignee set to *Anonymous*

#3 - 07/31/2013 05:45 PM - Anonymous

- Status changed from *In Progress* to *Resolved*
- % Done changed from 0 to 100

Applied in changeset r289.

#4 - 07/31/2013 05:49 PM - Anonymous

- Status changed from *Resolved* to *Feedback*
- Assignee changed from *Anonymous* to *A. Tuleu*

Alexandre, can you check, if this meets your needs? Check NemoMath0.4-eigen3.pc and NemoMath-Eigen3Config.cmake

#5 - 09/23/2013 06:17 PM - Anonymous

- Status changed from *Feedback* to *Closed*

#6 - 09/23/2013 06:31 PM - A. Tuleu

Yep it works well at this level.

You still need a recompilation for RCI, and force here the dependency on eigen3. Otherwise ABI problem may arise.