

Breakout groups and tasks

(1) AD & parallel

coordinator: Anders

- evaluate whether Kasper's approach can be applied in AD Model builder, prepare working examples, and report
- find out where ongoing parallel development stands (pthread, Open MPI, ...), prepare/retrieve working examples, and report
- prepare shell script to run many parallel MCMC chains with current ADMB (e.g. catage example), merge and diagnose chains, explore how we could modify ADMB to help the user do this inside ADMB, and report

(2) Documentation

coordinator: Hans

- list all new features that have been introduced in ADMB since version 8, check if they are in user manuals, add new text to manuals, and report
- check if build instructions work, update where needed, and report
- find commonly used classes/methods that are not documented in Doxygen, add new Doxygen comments, and report
- draft an introduction to ADMB for R users, based on R2admb [Mollie & Ben Stevenson]
- try to make manuals available in HTML

(3) Training

coordinator: Arni

- install ADMB, compile model, and run
[tpl2cpp, adcomp, adlink, admb]
- build ADMB from sources
[gcc, flex, sed, make]
- repository checkout & commit
[svn, viewvc, log entries]
- code manipulation
[diff, grep]
- scripts
[bash, dos, dll]
- test & debug
[buildbot, gdb]
- dismantling ADMB-IDE
[emacs, lisp, inno]
- documentation
[latex, doxygen]
- look for tasks to work on

(4) DLL & ADMB-R connectivity

coordinator: Athol

- test current DLL functionality, experiment with compilation flags, and report
- evaluate whether Rcpp is relevant to ADMB-R connectivity, and report

(5) GDB support

coordinator: Chris

- try to build ADMB libraries with debug symbols for all platforms; these would be included in future releases of ADMB, along with the optimized and safe libraries (or replacing the safe libraries)

(6) GitHub for binary releases

coordinator: Ben

- test binary uploads to GitHub and find out how much we have to pay for files larger than 100 MB

(7) Splines in ADMB

coordinator: Jan Jaap

- test and document existing spline capabilities in ADMB
- including recent spline functions in contributed libs
- create spline basis matrix in preliminary calcs, preferable same matrix as R
- try to call R function from ADMB

(8) NCEAS benchmark

coordinator: Arni

- tabulate benchmark results from NCEAS project
- upload to ADMB and NCEAS websites

(9) Naming conventions

coordinator: ADMB Core Team

- discuss what the dnorm() function should return: positive/negative, log/not, vector/sum
- possibly vote
- naming conventions in general

(10) Quasi-Newton optimizer

coordinator: Chris

- describe current algorithm/implementation
- evaluate alternative quasi-Newton algorithm/implementation