Options:

**-ainp FILE** change default ascii input parameter filename to FILE

**-binp FILE** change default binary input parameter filename to FILE

**-est** only do the parameter estimation

**-noest** do not do the parameter estimation (optimization)

**-ind FILE** change default input data filename to FILE

**-lmn N** use limited memory quasi newton -- keep N steps

**-lmn2 N** use other limited memory quasi newton -- keep N steps

**-ilmn N** use other limited memory quasi newton for random effects models - keep N steps

**-dd N** check derivatives after N function evaluations

**-lprof** perform profile likelihood calculations

**-maxph N** increase the maximum phase number to N

**-mcdiag** use diagonal covariance matrix for mcmc with diagonal values 1

**-mcmc [N]** perform markov chain monte carlo with N simulations

**-mcmult N** multiplier N for mcmc default

**-mcr** resume previous mcmc

**-mcrb N** reduce amount of correlation in the covariance matrix 1<=N<=9

**-mcnoscale** don't rescale step size for mcmc depending on acceptance rate

**-nosdmcmc** turn off mcmc histogram calcs to make mcsave run faster

**-mcprobe N** use probing strategy for mcmc with factor N

**-mcgrope N** Deprecated, same as -mcprobe

**-mcseed N** seed for random number generator for markov chain monte carlo

**-mcscale N** rescale step size for first N evaluations

**-mcsave N** save the parameters for every Nth simulation

**-mceval** go through the saved mcmc values from a previous mcsave

**-nuts** MCMC draws with the no-U-turn sampler

**-rwm** MCMC draws with a Metopolis sampler.

**-mcu** use uniformly distributed steps for mcmc instead of random normal

**-crit N1,N2,...** set gradient magnitude convergence criterion to N

**-iprint N** print out function minimizer report every N iterations (default 20).

**-maxfn N1,N2,**.. set maximum number opf function eval's to N

**-rs** if function minimizer can't make progress rescale and try again

**-nox** suppress vector and gradient values in minimizer screen report

**-phase N** start minimization in phase N

**-simplex** use simplex for minimization -- deprecated, use -neldmead

**-neldmead** use Nelder-Mead simplex algorithm for minimization

**-nohess** don't do hessian or delta method for std dev

**-eigvec** calculate eigenvectors of the Hessian

**-sdonly** do delta method for std dev estimates without redoing hessian

**-ams N** set arrmblsize to N (ARRAY\_MEMBLOCK\_SIZE)

**-cbs N** set CMPDIF\_BUFFER\_SIZE to N (ARRAY\_MEMBLOCK\_SIZE)

**-mno N** set the maximum number of independent variables to N

**-mdl N** set the maximum number of dvariables to N

**-gbs N** set GRADSTACK\_BUFFER\_SIZE to N (ARRAY\_MEMBLOCK\_SIZE)

**-hess\_step N** take N Newton steps with inverse Hessian

**-hess\_step\_tol eps** set hess\_step tolerance to eps

**-mip N** set maximum the number of initial parameters to a value N that is greater than zero (default is 4000).

**-display N** N sets display output with '0' for quiet display, '1' for concise display, or '2' for legacy display (default is 1).

**-info** show how to cite ADMB, license, and acknowledgements

**-version** show version information

**-help** show this message

Random effects options if applicable

**-nr N** maximum number of Newton-Raphson steps

**-imaxfn N** maximum number of evals in quasi-Newton inner optimization

**-is N** set importance sampling size to N

**-isf N** set importance sampling size funnel blocks to N

**-isdiag** print importance sampling diagnostics

**-hybrid** do hybrid Monte Carlo version of MCMC

**-hbf** set the hybrid bounded flag for bounded parameters

**-hyeps** mean step size for hybrid Monte Carlo

**-hynstep** number of steps for hybrid Monte Carlo

**-noinit** do not initialize RE before inner optimization

**-ndi N** set maximum number of separable calls

**-ndb N** set number of blocks for RE derivatives (reduce temp file size)

**-ddnr** use high precision Newton-Raphson, for banded Hessian case only

**-nrdbg** verbose reporting for debugging newton-raphson

**-mm N** do minimax optimization

**-shess** use sparse Hessian structure inner optimzation