Using meta-programming to make BRugs from BUGS and R

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WinBUGS is a successful Bayesian statistical modeling package using Markov Chain Monte Carlo methods. WinBUGS has been written as a series of small cooperating components using the Oberon programming language. R is a statistical and data analysis package which can be interfaced to C code using dynamic link libraries. We have developed a dynamic link library, incorporating a component loader, that allows R to make use of WinBUGS components. Meta-programming is used to communicate between the R and Oberon software.