Project Objective:
- Support customized aspect weaving for high performance scientific computing applications through scalable parallel program transformation techniques using DMS.
- AST-based source to source transformations
- Current support for aspect weaving into C++ template libraries
- Future directions: Extension to other languages (e.g., FORTRAN, Ada) and libraries (e.g., MPI)

Case Study: C++ Standard Template Library and Blitz++

Crosscutting in Blitz++

Aspect Specification

High-Level Architecture