The Java Modeling Language (JML) describes the functional behavior of Java classes and methods using preconditions and postconditions. However, standard preconditions and postcondition specifications cannot verify calls to higher order methods (HOMs). JML uses model program specifications to reason about HOMs. This thesis describes the implementation of model programs in OpenJML. The implementation includes parsing, type checking, and matching of model program specifications against the code.

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The public is welcome to attend.