Mechanizing logic in an aspect oriented attribute grammar system

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Abstrak

This paper reports a preliminary work on using an aspect oriented attribute grammar system called UU-AG to develop computer aided verification tools. UU-AG provides an abstract and modular way to develop such a tool and later on incrementally upgrade them. This paper shows an example of a toy programming logic implemented in UU_AG. We will show the implementation of the verification condition generator (VCG). We extend the implementation with a new feature such as run-time trace generator to validte the computation of the implemented infrence engine.