

A Product Line Asset Management Tool

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Introduction

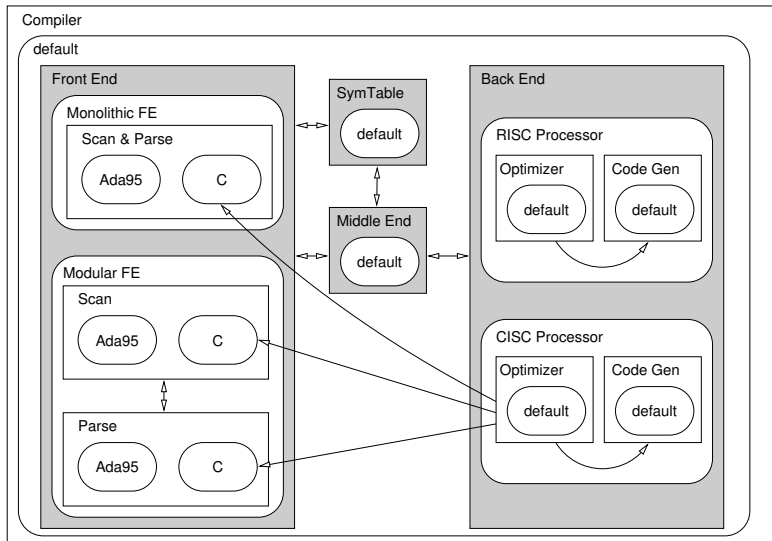
Setting of the student project:

- Two competing groups
- 9 students per group
- Duration 12 months (5th/6th semester)
- \approx 500 hours per person

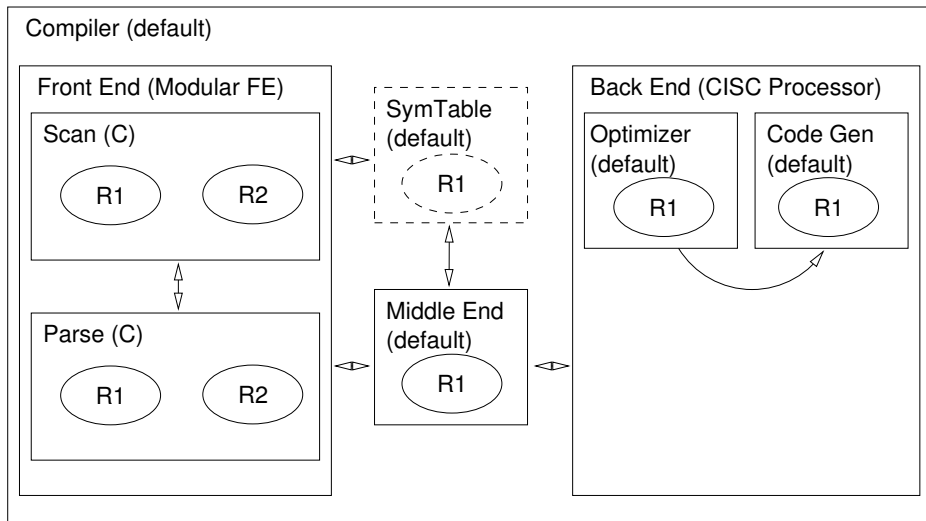
Requirements:

- Support initiation of new products
- Integrated with standard configuration management
- Support communication between developers
- Different views for product line engineer, product engineer, programmer

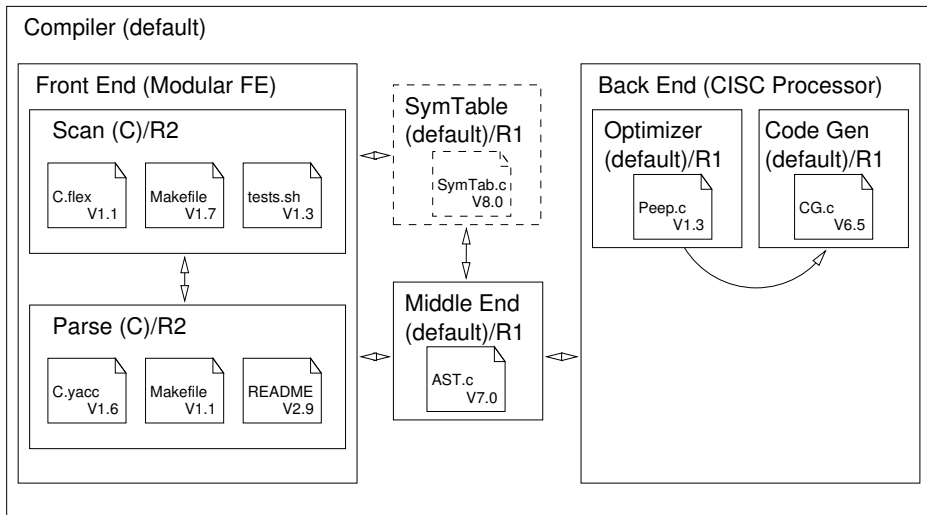
Example: Compiler Product Line



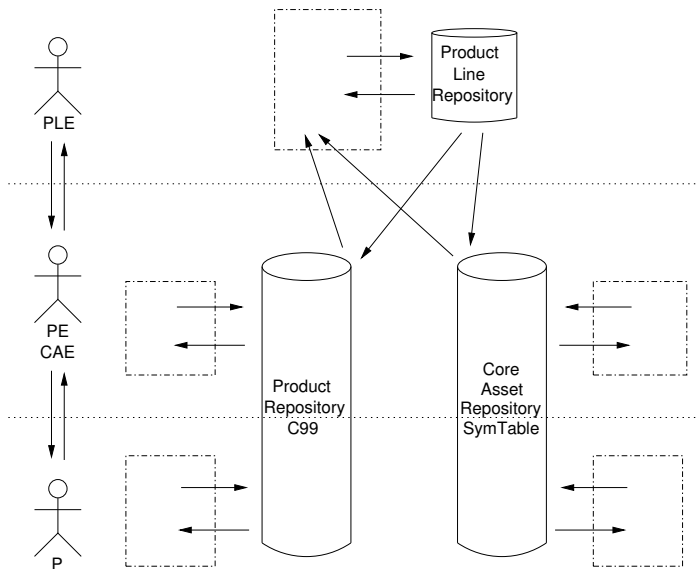
Example: "C99" Product Engineer's View



Example: "C99" Programmer's View



PLAM Tool Architecture



Conclusion

The PLAM tool supports:

- Variation points bound at compile time
- Independent repositories for product development
- Generic interface for revision management backends
- Plug-in mechanism for dependency/exclusion decision model

Implemented in

- Eclipse
- Bauhaus tool suite of University of Stuttgart