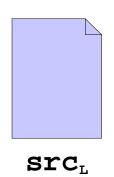
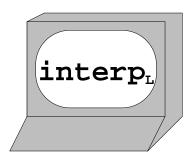
Interpreter



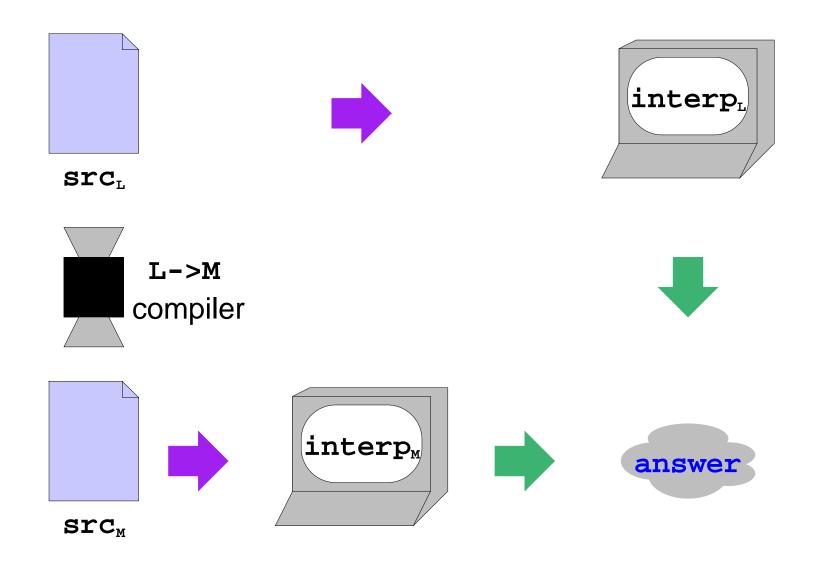


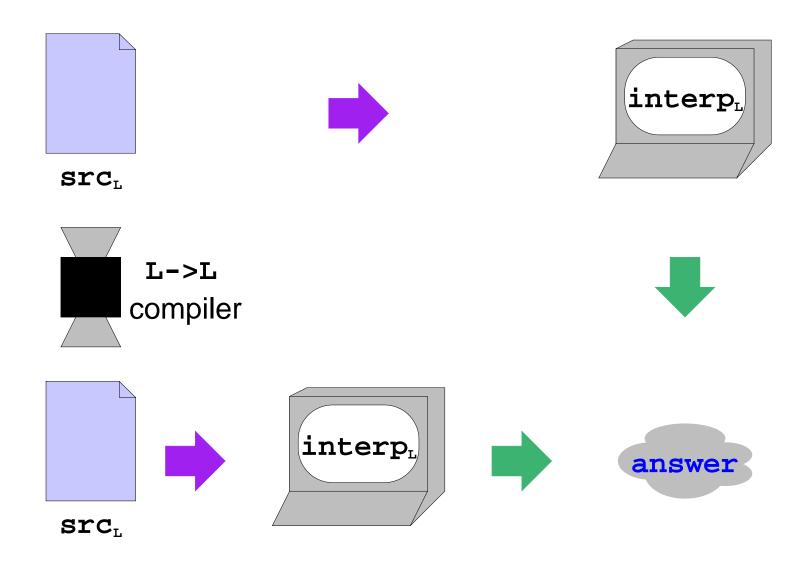


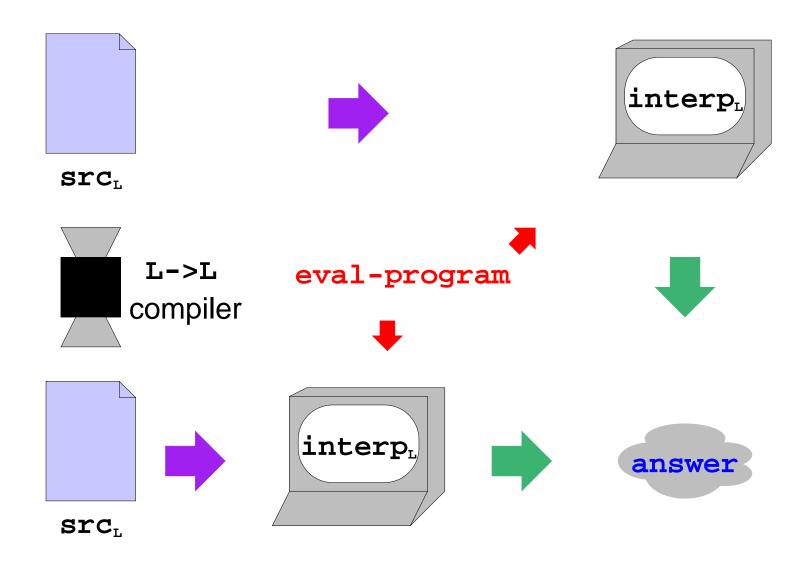


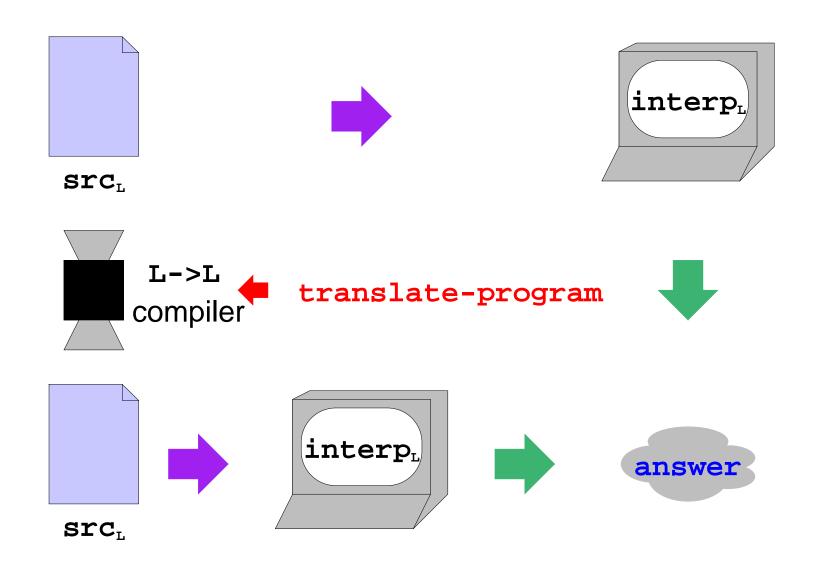


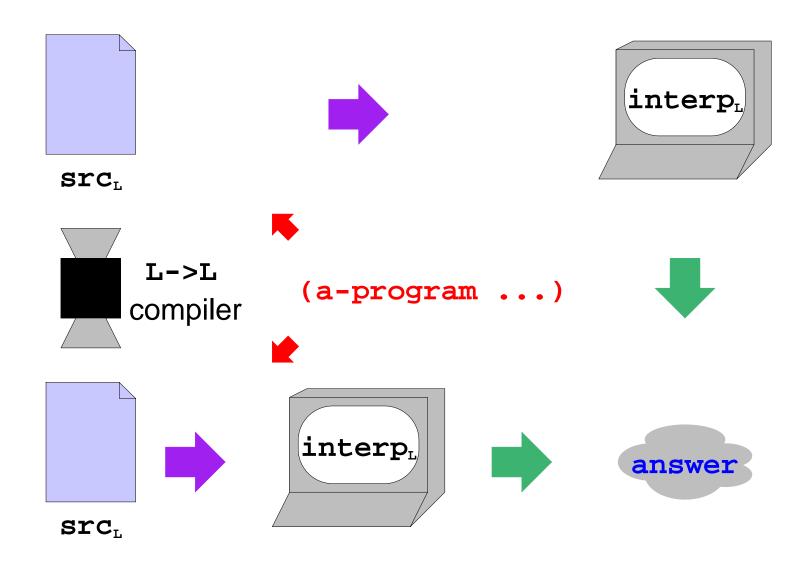
Compiler











Compiler: Lecture Example

- Start with simply typed proc language
- Write translate-expr that traverses the program, but makes no changes
- Add expression forms for cheaper operations
- Change translate-expr to replace expensive operations with cheaper ones
 - Lexical addresses

Compiler: HW11

- Given initial translate-expr that implements some object transformations
 - Replace method name with index in send
 - Remove obvious cast and instanceof
- Your task: add other compiler transformations
 - Lexical addresses
 - Pre-compute field array size for new
 - O Pre-compute initialize index for new

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