

# Secure Compilation

## Lecture 2

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## 1 Introduction

### 1.1 Source Language

#### 1.1.1 Types

We just have integers and functions in source language.

$$\sigma ::= \text{int} \mid \sigma_1 \rightarrow \sigma_2 ::=$$

#### 1.1.2 Terms

### 1.2 Target Language

$$v ::= \text{pack}(\tau, v) \text{ as } \exists \alpha. \tau$$

$$e ::= \text{if0 } v \ e_1 \ e_2 \mid \text{unpack}(\alpha, x) = v_1 \text{ in } e_1 \mid \text{let } x = e_1 \text{ in } e_2$$