

Degree Project in Technology
First cycle, 15 credits

This is the title in the language of the thesis

A subtitle in the language of the thesis

FAKE A. STUDENT FAKE B. STUDENT

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FAKE A. STUDENT

FAKE B. STUDENT

Bachelor's Programme in Information and Communication Technology Date: January 23, 2024

Supervisors: A. Busy Supervisor, Another Busy Supervisor, Third Busy Supervisor

Examiner: Gerald Q. Maguire Jr.

School of Electrical Engineering and Computer Science

Host company: Företaget AB

Swedish title: Detta är den svenska översättningen av titeln

Swedish subtitle: Detta är den svenska översättningen av undertiteln

0.1 Inference Rules

$$\begin{array}{c} x:C; ocap \vdash t:\tau \\ \Gamma; a \vdash b:Q \rhd Box[C] \\ \hline \\ \Gamma; a \vdash task(b)\{x\Rightarrow t\}:Q \rhd Task[C] \\ \hline \\ Perm[Q] \in \Gamma \\ \Gamma \setminus Perm[Q]; a \vdash s:\sigma \\ \Gamma; a \vdash x:Q \rhd Task[C] \\ \hline \\ \Gamma; a \vdash async(x)\{s\}:\bot \\ \hline \\ T\text{-FINISH} \hline \begin{array}{c} \Gamma; a \vdash t:\tau \\ \Gamma; a \vdash finish\{t\}:null \\ \hline \\ E\text{-TASK} \hline \\ H, \{(f, \langle L, \\ Let \ x = task(b')\{x\Rightarrow t\}in \ s, P\rangle^l)\} \uplus TS \\ \hline \\ & \downarrow H, \{(f, \langle L[x \rightarrow task(b(o,p),t)], s, \\ \hline \\ & \downarrow H, \{(f, \langle L[x \rightarrow task(b(o,p),t)], s, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), s, \\ Async(y), b, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), b, \\ Async(y), b, \\ Async(y), b, \\ Async(y), b, \\ \hline \\ & \downarrow H, \{(f, \langle L, \\ Async(y), b, \\ Async$$