



Specification of ASBRU Plans



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Translation – ASBRU Plan



ASBRU

plan <<name>>

KIV

procedure <<name>>#(...)

Translation – Conditions



ASBRU

precondition φ

condition φ

KIV

await φ ; body

break body **if** φ

Translation – User Interaction



ASBRU

manual activation

ask x

KIV

var $\text{time}_0 = \text{time}$, $\text{dt} = ?$ **in**

await $\text{time}_0 + \text{dt} \leq \text{time}$

$x := ?$

Translation – Body Constructs



ASBRU

DO-SEQ $P_1; \dots; P_n$

DO-ANY-ORDER $P_1, \dots, P_n$

DO-UNORDERED $P_1, \dots, P_n$

DO-TOGETHER $P_1, \dots, P_n$

KIV

$P_1; \dots; P_n$

$P_1 \parallel_a \dots \parallel_a P_n$

$P_1 \parallel_s \dots \parallel_s P_n$

???

Translation – Additional Control Flow



ASBRU

KIV

WAIT-FOR P_i **break** body **if** $P_i = \text{completed}$