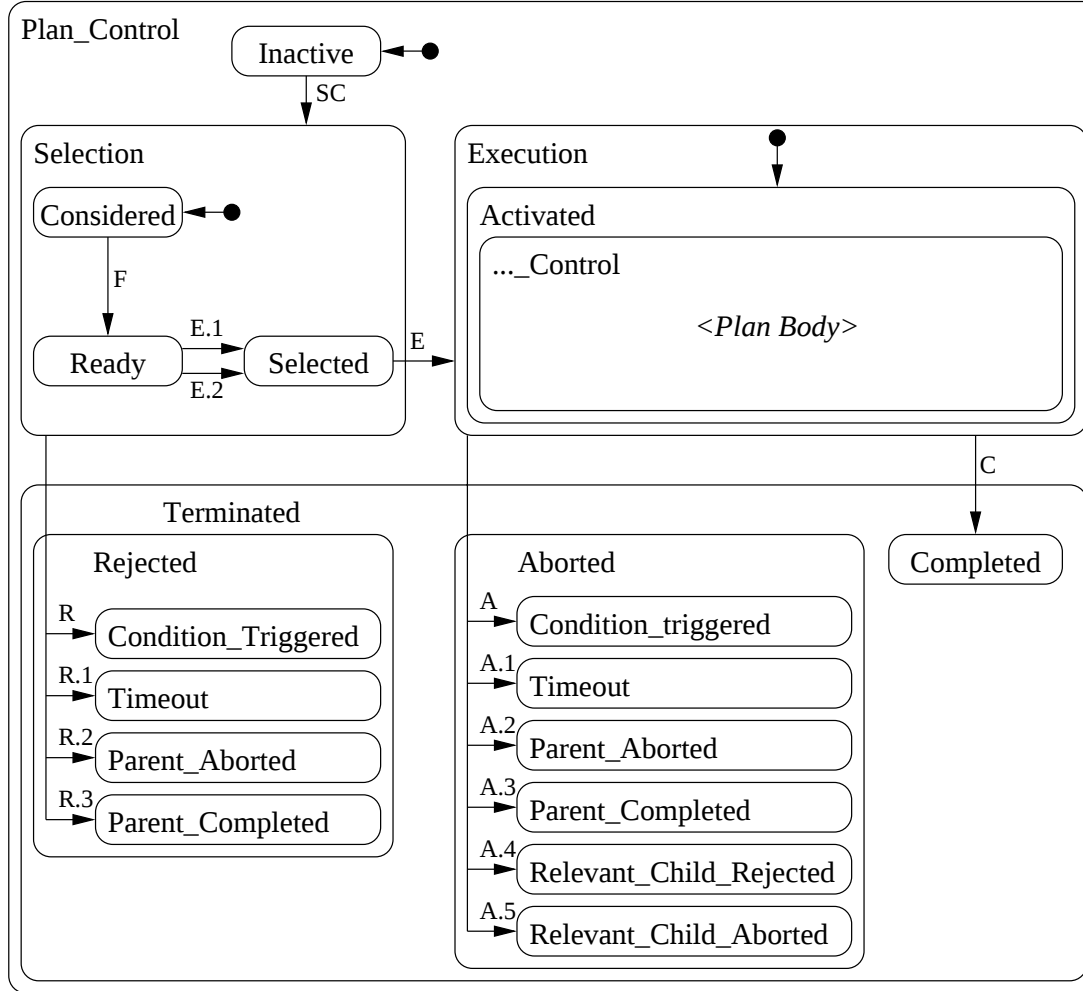


Formal Semantics of ASBRULight v0.9 (Feb 13, 2002)

Plan State Model



SC : *consider*

F : [*filter_cnd* = true]

E.1 : [*activate_cnd* = *automatic*]

E.2 : *select*[*activate_cnd* = *manual*]

E : *activate*

[*ESS* + *REF* ≤ *time* ≤ *LSS* + *REF*]

/ *start_time* := *time*

R : [*filter_cnd* = false]

R.1 : [*LSS* + *REF* < *time*]

R.2 : [**in**(*P.Aborted*)]

R.3 : [**in**(*P.Completed*)]

A : [*abort_cnd* = true]

A.1 : [*LFS* + *REF* < *time* ∨ *MaxDu* < *time* − *start_time*]

A.2 : [**in**(*P.Aborted*)]

A.3 : [**in**(*P.Completed*)]

A.4 : [$\bigvee_{i=1}^k \mathbf{in}(C_i^m.Rejected)$]

A.5 : [$\bigvee_{i=1}^k \mathbf{in}(C_i^m.Aborted)$]

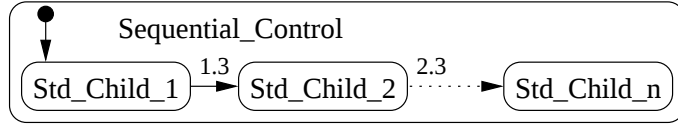
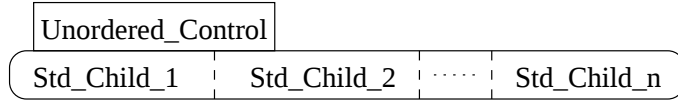
C : [*complete_cnd* = true]

∧ *EFS* + *REF* ≤ *time* ≤ *LFS* + *REF*

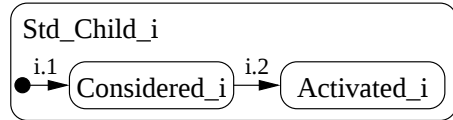
∧ *MinDu* ≤ *time* − *start_time* ≤ *MaxDu*

∧ $\bigwedge_{i=1}^k \mathbf{in}(C_i^m.Completed)$

Semantics of the Plan Body



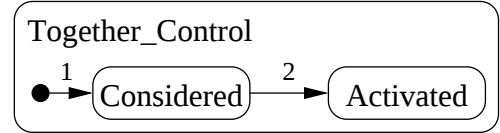
where



$i.1 : / C_i.consider$

$i.2 : [\mathbf{in}(C_i.Selected)] / C_i.activate$

$i.3 : [\mathbf{in}(C_i.Terminated)]$



1 : $/ C_1.consider, \dots; C_n.consider$

2 : $[\wedge_{i=1}^k \mathbf{in}(C_i.Selected)]$
 $/ C_1.activate; \dots; C_n.activate$

