

An Event-B Specification of Bridge_M0 Generated Date: 30 Mar 2009 @ 05:08:56 PM
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MACHINE Bridge_M0

SEES Bridge_C0

VARIABLES

n number of cars on island

INVARIANTS

$inv1 : n \in \mathbb{N}$

$inv2 : n \leq d$

EVENTS

Initialisation

begin

$act1 : n := 0$

end

Event $ML_out \hat{=}$

when

$grd1 : n < d$

then

$act1 : n := n + 1$

end

Event $ML_in \hat{=}$

when

$grd1 : n > 0$

then

$act1 : n := n - 1$

end

END