

An Event-B Specification of SimpleTheoryTest

This model tests a machine that uses a theory that in turn uses another theory.

1	MACHINE LePond	2
1.1	<i>fish fush</i>	2
2	THEORY Crabs	3
2.1	<i>Crustean</i>	3
2.2	<i>Crustean</i>	3
3	THEORY Fishes	4
3.1	<i>Salmon</i>	4
3.2	<i>Salmon</i>	4

VARIABLES

1.1

fish
fush

INVARIANTS

inv1: *fish* ∈ Salmon(\mathbb{Z}) Invariant 1 comment
inv2: *fush* ∈ Salmon(Crustean(**BOOL**)) Invariant 2 comment

EVENT INITIALISATION

THEN

act1: *fish* := LeBigFish Constructor makes Salmon(\mathbb{Z})
act2: *fush* := LeBigFish Constructor make Salmon(Crustean(**BOOL**))

END

THEORY	Crabs	2
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DATATYPES		2.1
		2.2
	nilfish	
	conshel	
OPERATORS		
	compo	
END		

THEORY Fishes

3

DATATYPES

3.1

LeBigFish

3.2

END

Crabs, 3

fish, 2

Fishes, 4

fush, 2

INITIALISATION, 2

LePond, 2