An Event-B Specification of

${\bf Extends Multiple Contexts}$

Test extending from multiple contexts.

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1	CONTEXT Alfa 1.1 AA	64
2	CONTEXT Beta 2.1 BB 2.2 b bb bbb	
3	CONTEXT Gamma 3.1 GG	4
4	MACHINE Machina 4.1 ra rh ra	

CONTEXT Alfa

SETS

AA

CONSTANTS

a
aa
aaa
AXIOMS

axm1: partition(AA, {a}, {aa}, {aaa})

END

```
CONTEXT Beta

SETS

BB

CONSTANTS

b
bb
bb
bbb
AXIOMS

axm1: partition(BB, {b}, {bb}, {bbb})

END
```

MACHINE Machina 4

SEES Gamma

VARIABLES

4.1

xa xb xg

INVARIANTS

 $inv1: xa \in AA$ $inv2: xb \in BB$ $inv3: xg \in GG$

EVENT INITIALISATION

THEN

```
init1: xa := a
init2: xb := b
init3: xg := g
```

END

Alfa, 2, 4

Beta, 3, 4

 $Gamma,\,4,\,5$

INITIALISATION, 5

Machina, 5

xa, 5

xb, 5

xg, 5