An Event-B Specification of

ExtendsMultipleContexts

1	CONTEXT Alfa
	1.1 AA
	1.2 a aa aaa
2	CONTEXT Beta
	2.1 BB
	2.2 b bb bbb
3	CONTEXT Gamma
	3.1 GG
	3.2 g gg ggg
4	MACHINE Machina 5
	4.1 xa xb xg

CONTEXT Alfa

SETS

AA

CONSTANTS

a
aa
aaa
AXIOMS

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

END

```
CONTEXT Beta 2

SETS
BB

CONSTANTS

b
bb
bb
bb
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 := ainit2: xb := binit3: xg := g

END

Alfa, 2, 4

Beta, 3, 4

 $Gamma,\,4,\,5$

INITIALISATION, 5

Machina, 5

xa, 5

xb, 5

xg, 5