

(a) The host tree S
(A:1.0, (B:0.6, C:0.6):0.4)

(c) The guest leaf to species leaf
map

a1	A
b1	B
b2	B
c1	C
c2	C

(b) The guest tree G
(a1, ((b1, c1), (b2, c2)))

(d) The full reconciliation γ

0	0
1	1, 4
2	2, 5
3	3, 6, 7
4	0, 7, 8

(e) The reduced reconciliation $\check{\gamma}$

0	0
1	1, 4
2	2, 5
3	3, 6
4	0, 7

(f) The reconciled tree (G, γ) in *PRIME*-format

```
(a1[&&PRIME ID=0 S=A AC=(0 4)], ((b1[&&PRIME ID=1 S=B AC=(1)],  
c1[&&PRIME ID=2 S=C AC=(2)])[&&PRIME ID=3 AC=(3)],  
(b2[&&PRIME ID=4 S=B AC=(1)], c2[&&PRIME ID=5 S=C AC=(2)])  
[&&PRIME ID=6 AC=(3)])[&&PRIME ID=7 AC=(4)])[&&PRIME ID=8]
```