Once again on Association, Aggregation, and Composition martin gogolla 2014-06-10


```
context Person inv acyclicAggregationComposition:
    self.child->union (self.childM) ->union (self.childF) ->
Implication: context Person inv acyclicParenthood:
                self.child->closure (p|p.child) ->excludes (self)
            context Person inv acyclicMotherhood:
                self.childM->closure (p|p.childM) ->excludes (self)
            context Person inv acyclicFatherhood:
                self.childF->closure (p|p.childF) ->excludes (self)
context Person inv forbiddingSharingForComposition:
    self.mother->notEmpty() and self.father->notEmpty()
```


closure (p|p.child->union (p.childM) ->union (p.childF)) ->excludes (self)


## USE: assoc-agg-comp.use

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| AssociationAggregationComposition - Classes | 品 object tiagram |
| :---: | :---: |
|  |  |
| $\begin{aligned} & \text { class Person } \\ & \text { end } \end{aligned}$ |  |
| Log |  |
| checking structure. checked structure in 0 ms . checking structure, ok. |  |




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Log
checking structure.
Error: There is a cycle in the part-whole hierarchy. Object 'bob' is a direct or indirect part of 'cyd'
checked structure in 0 ms .
checking structure, found errors.
Ready.




