

# Summary

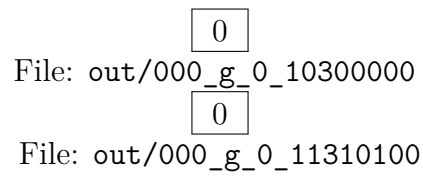
October 16, 2019

# Contents

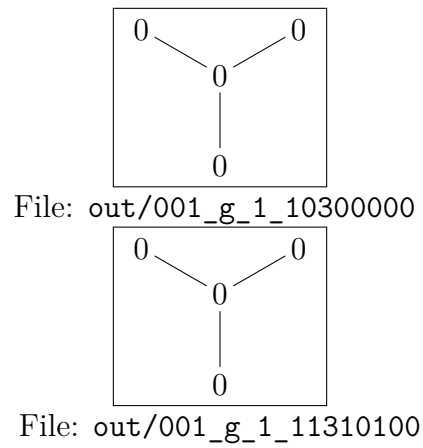
0.1	Loaded Graphs . . . . .	2
0.1.1	Goal . . . . .	2
0.1.2	Start . . . . .	2
0.2	Loaded Rules . . . . .	2
0.2.1	Mark for conversion . . . . .	2
0.2.2	RemoveSingleR . . . . .	3
0.2.3	reattachExternalEdge . . . . .	4
0.2.4	removeAlreadyAttached . . . . .	5
0.2.5	removeInterREdge . . . . .	5
0.2.6	unmarkCollapsedNode . . . . .	6
0.2.7	DG Hyper, dg_0 . . . . .	7
0.3	Product Graphs . . . . .	7
0.3.1	p_{0,0} . . . . .	7
0.3.2	p_{0,1} . . . . .	8
0.3.3	p_{0,2} . . . . .	8
0.3.4	p_{0,3} . . . . .	8
0.3.5	p_{0,4} . . . . .	8
0.4	Flow Solutions, id 0 . . . . .	8

## 0.1 Loaded Graphs

### 0.1.1 Goal

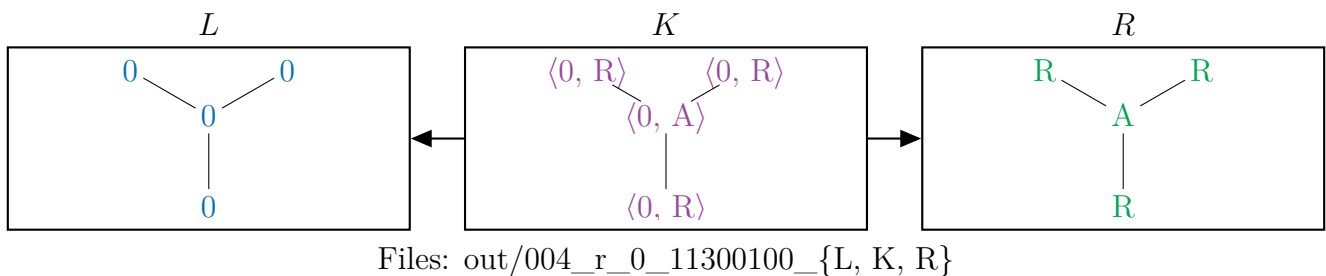
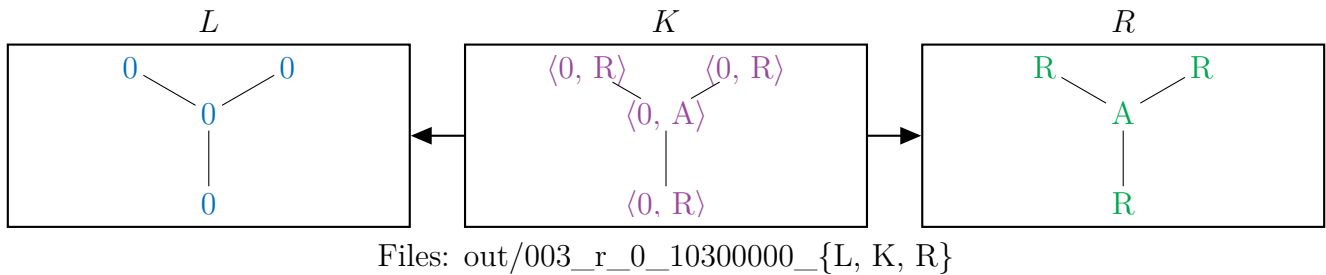


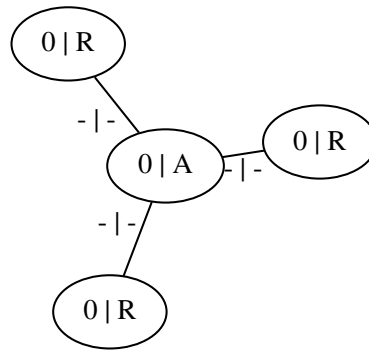
### 0.1.2 Start



## 0.2 Loaded Rules

### 0.2.1 Mark for conversion





File: out/005\_r\_0\_combined

$$|\{e \in \text{outEdges}(0)\}| = 3$$

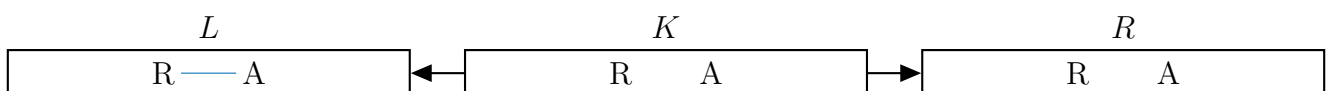
$$|\{e \in \text{outEdges}(0) \mid \text{label}(\text{target}(e)) \in \{'0'\}\}| = 3$$

$$|\{e \in \text{outEdges}(1) \mid \text{label}(\text{target}(e)) \in \{'R', 'A'\}\}| = 0$$

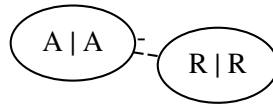
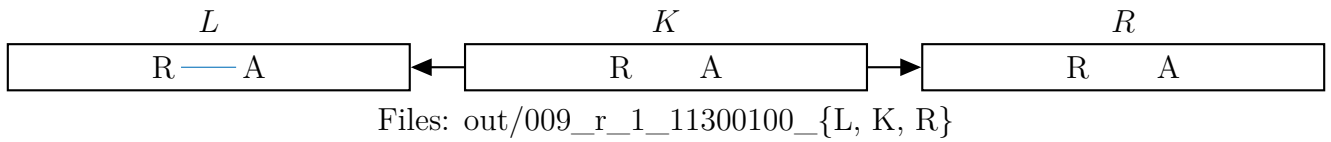
$$|\{e \in \text{outEdges}(2) \mid \text{label}(\text{target}(e)) \in \{'R', 'A'\}\}| = 0$$

$$|\{e \in \text{outEdges}(3) \mid \text{label}(\text{target}(e)) \in \{'R', 'A'\}\}| = 0$$

## 0.2.2 RemoveSingleR



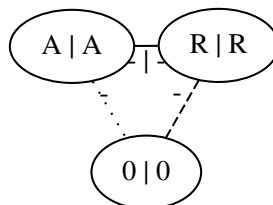
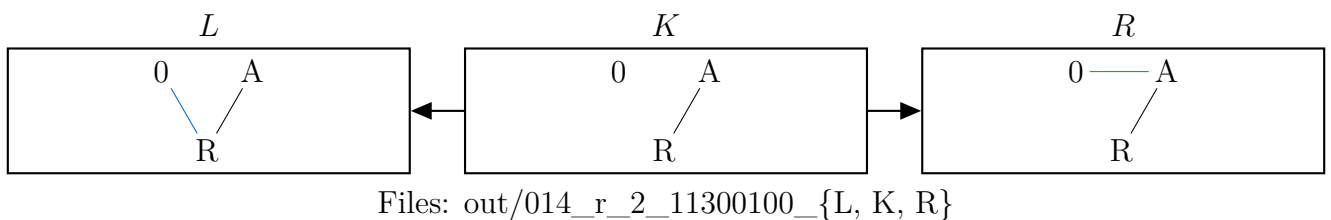
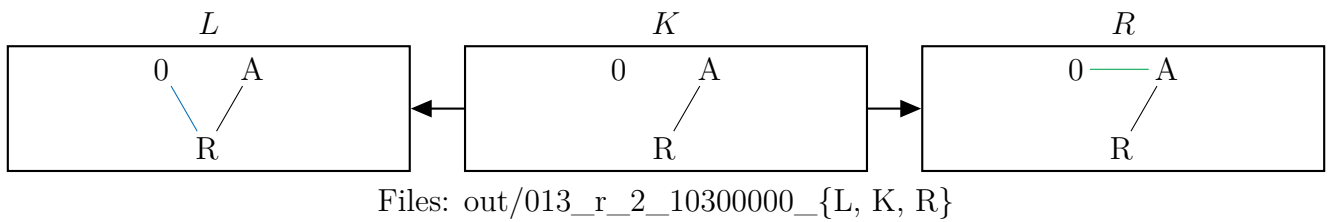
Files: out/008\_r\_1\_10300000\_{L, K, R}



File: out/010\_r\_1\_combined

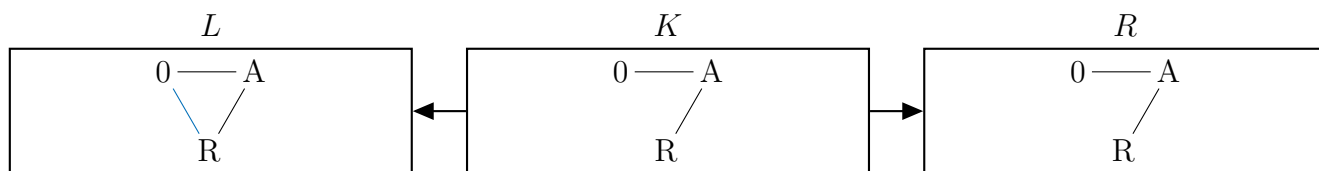
$|\{e \in \text{outEdges}(1) \mid$   
 $\text{label}(\text{target}(e)) \in \{ '0', 'R' \}$   
 $\}| = 0$

### 0.2.3 reattachExternalEdge

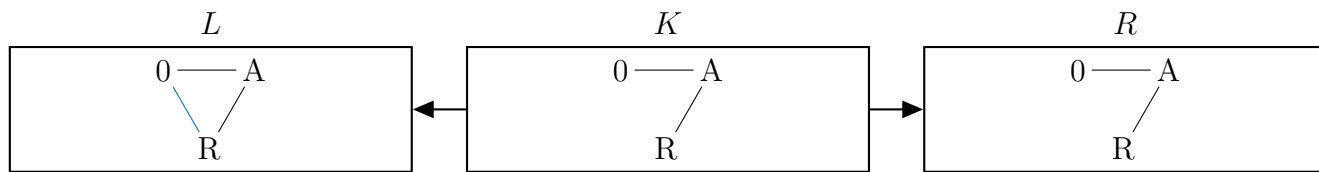


File: out/015\_r\_2\_combined

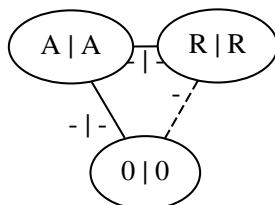
## 0.2.4 removeAlreadyAttached



Files: out/018\_r\_3\_10300000\_{L, K, R}

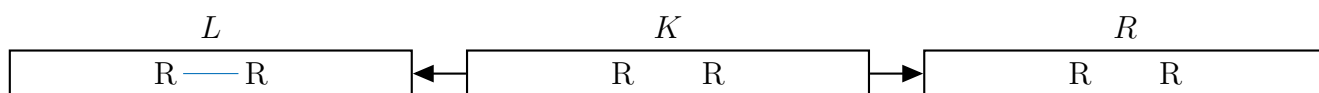


Files: out/019\_r\_3\_11300100\_{L, K, R}

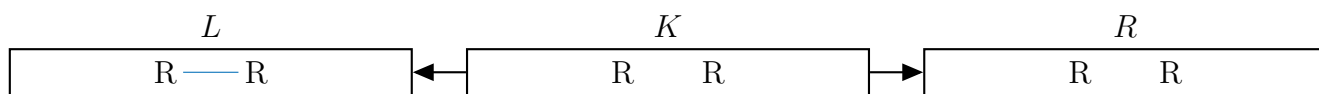


File: out/020\_r\_3\_combined

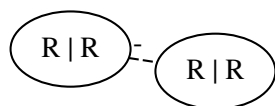
## 0.2.5 removeInterREdge



Files: out/023\_r\_4\_10300000\_{L, K, R}



Files: out/024\_r\_4\_11300100\_{L, K, R}

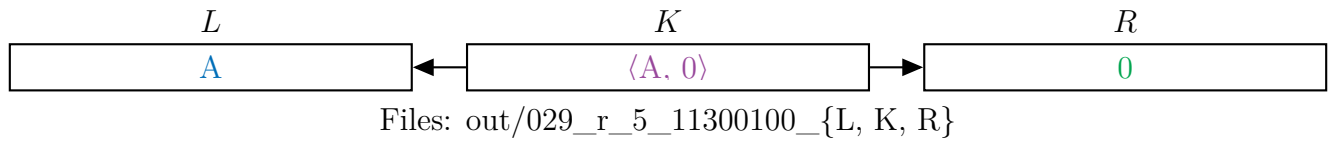
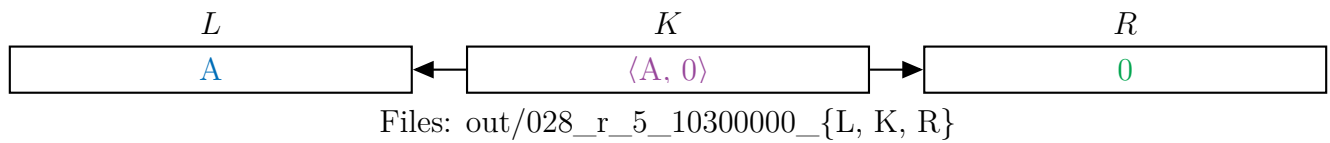


File: out/025\_r\_4\_combined

$$|\{e \in \text{outEdges}(0) \mid \text{label}(\text{target}(e)) \in \{\text{'A'}, \text{'0'}\}\}| = 0$$

$$|\{e \in \text{outEdges}(1) \mid \text{label}(\text{target}(e)) \in \{\text{'A'}, \text{'0'}\}\}| = 0$$

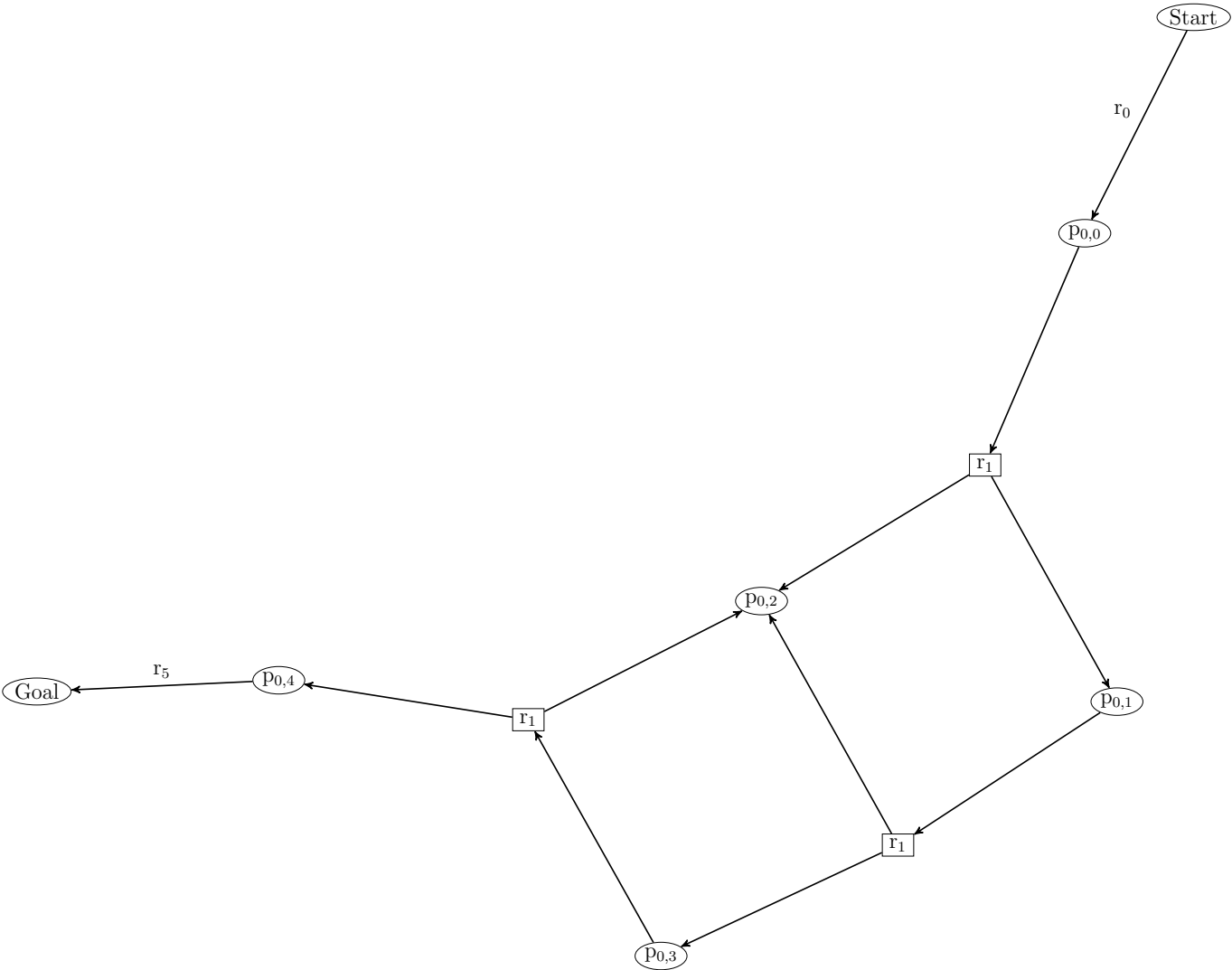
### 0.2.6 unmarkCollapsedNode



File: out/030\_r\_5\_combined

$$|\{e \in \text{outEdges}(0) \mid \text{label}(\text{target}(e)) \in \{\text{'R'}\}\}| = 0$$

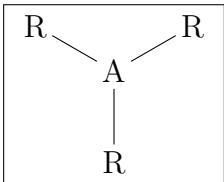
0.2.7 DG Hyper, dg\_0



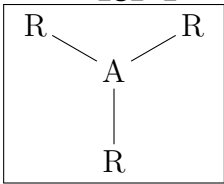
File: out/033\_dg\_0\_10100

0.3 Product Graphs

0.3.1  $p_{\{0,0\}}$



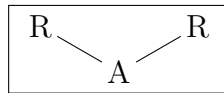
File: out/034\_g\_2\_10300000



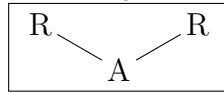
File: out/034\_g\_2\_11310100



### 0.3.2 $p_{\{0,1\}}$



File: out/035\_g\_8\_10300000



File: out/035\_g\_8\_11310100

### 0.3.3 $p_{\{0,2\}}$

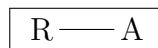


File: out/036\_g\_9\_10300000

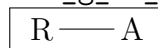


File: out/036\_g\_9\_11310100

### 0.3.4 $p_{\{0,3\}}$



File: out/037\_g\_14\_10300000



File: out/037\_g\_14\_11310100

### 0.3.5 $p_{\{0,4\}}$



File: out/038\_g\_18\_10300000



File: out/038\_g\_18\_11310100

## 0.4 Flow Solutions, id 0