

# Report

## Rework machine models

### Alpha

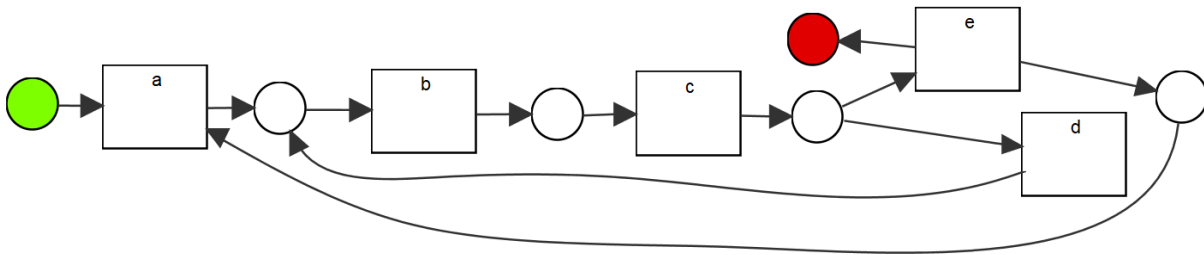


Figure 1: Alpha Miner result

### Alpha+

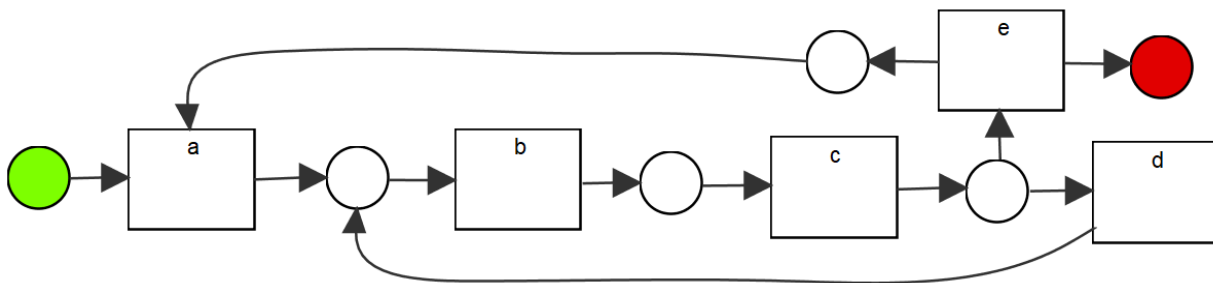


Figure 2: Alpha+ result

### Alpha++

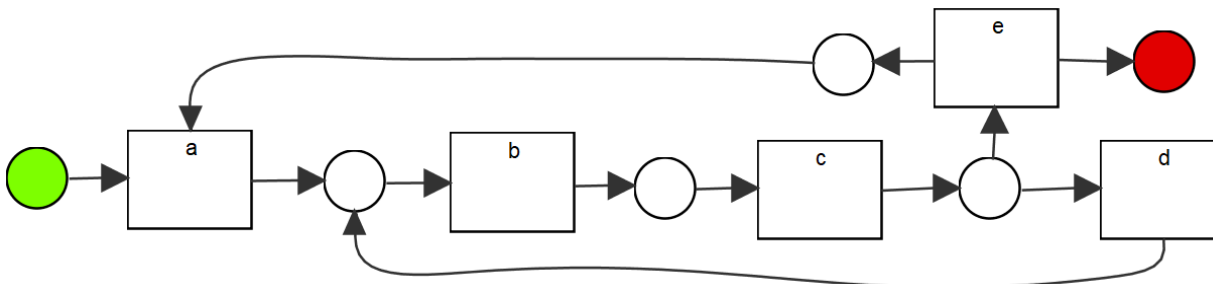
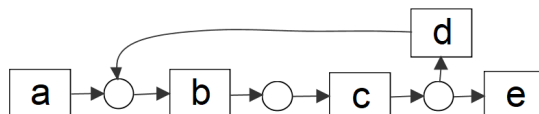


Figure 3: Alpha++ result

### Alpha\$ / Alpha+++



### Heuristics Miner

```

graph LR
    a[a] --> C1(( ))
    C1 --> b[b]
    b --> C2(( ))
    C2 --> c[c]
    c --> C3(( ))
    C3 --> e[e]
    C3 --> d[d]
    d --> C1

```

The diagram illustrates the Inductive Miner process flow. It begins with a start node (white circle) that branches into two parallel paths. The top path consists of a black rectangle followed by a red circle. The bottom path consists of a black rectangle followed by a green circle. Both paths merge into a single flow that passes through a sequence of nodes: a white rectangle labeled 'a', a white circle, a white rectangle labeled 'b', another white circle, a white rectangle labeled 'c', a third white circle, and finally a white rectangle labeled 'e'. A feedback loop originates from the end of the process (after node 'e') and returns to the start node. Additionally, a feedback loop branches off from the flow between nodes 'c' and the third white circle, passing through a white rectangle labeled 'd' before returning to the start node.

## Evolutionary Tree Miner

*Failure in discovering the model*

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**Fodina**

```
graph LR; Start(( )) --> a[a]; a --> C1(( )); C1 --> b[b]; b --> C2(( )); C2 --> c[c]; c --> C3(( )); C3 --> d[d]; d --> e[e]; e --> End(( )); d --> C1;
```

Figure 8: Fodina result

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## Hybrid ILP Miner

*Failure in discovering the model*

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### DES-MD

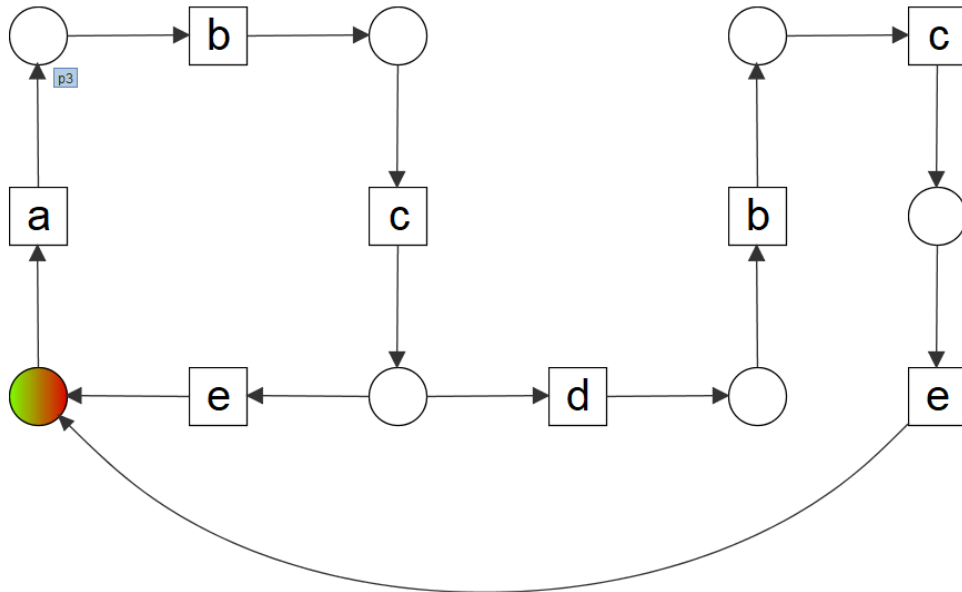


Figure 8: DES-MD result