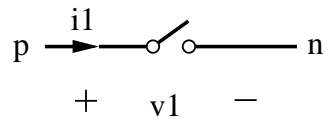


`switch_e.ece`



### Attributes

```
mainnodes: p n
outvar: i1=cur(p)_of_s1 v1=v1_of_s1
ind_nodes: node_1 node_2
rparms: ron=1m roff=1M v_high=1.0
```

### Description

`switch_e.ece` is a switch which behaves like a resistance  $R_{\text{on}}$  when closed and  $R_{\text{off}}$  when open. The voltage difference between nodes `node_1` and `node_2` determines if the switch is open or closed.

If  $[v(\text{node\_1}) - v(\text{node\_2})] > v\_high/2$ , the switch is closed; else, it is open.

The branch voltage `v1` and the branch current `i1` are made available as output variables.

AC behaviour is not implemented.