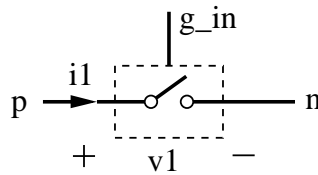


switch_g1.ece



Attributes

```
mainnodes: p n
outvar: i1=cur(p)_of_s1 v1=v1_of_s1
main_var: g_in
rparms:
+   ron=1.0m
+   roff=1.0M
+   g_high=1.0
+   v_on=0
```

Description

`switch_g1.ece` is a switch which behaves like a resistance R_{on} when closed and R_{off} when open. If $g_{\text{in}} > g_{\text{high}}/2$, the switch is closed; else it is open. The values of R_{on} and R_{off} are specified by the real parameters `ron` and `roff`, respectively.

If the real parameter `v_on` is non-zero, it serves as the voltage drop across the switch when it is conducting. In that case, the equivalent circuit of the switch is a resistance `ron` in series with a voltage source `v_on`.

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

AC behaviour is not implemented.