



Figure 1: `invrtr.gce`: input-output relationship.

## invrtr.gce

### Attributes

```

mainvars: vao vbo vco ia ib ic iastar ibstar icstar
rparams: h=0.01 vdc=10 epsl=1.0e-6
+ delta_tmin=1.0e-9 delta_tnrml=1.0e-3

```

### Description

`invrtr.gce` is a model for an inverter. Its behaviour is described by Fig. 1. Similar relationships hold for  $V_{b0}$  and  $V_{c0}$ .

The parameters `delta_tmin`, `delta_tnrml`, and `epsl` are used for controlling the simulator time steps. Additional time points are forced, depending on the values of `delta_tmin` and `delta_tnrml`, when  $(i_a - i_{astar}) \pm h/2 \leq \text{epsl}$ . This feature allows accurate simulation without having to make the average time step very small. Generally, `delta_tnrml` should be made equal to the typical simulator time step (`delt_const`) while `delta_tmin` should be made much smaller (say, by a factor of 100).

AC behaviour is not implemented.