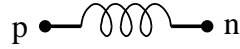


## `l_pu_sync.ece`



### Attributes

```
mainnodes: p n
outvar: v1=v1_of_l1 i1=cur(p)_of_l1
stparms: i0sv=0
igparms: i0ig=0
iparms:
+   i_compute_strt=0
+   indx=1
rparms: x_pu=1 f_b=50
```

### Description

`l_pu_sync.ece` is an inductor connected between nodes `p` and `n`. The inductance is specified as a per unit value (`x_pu`), with `f_b` as the base frequency. `i0sv` is used to specify the “start-up” value of `i1` in start-up simulation. The output variables `i1` and `v1` are the branch current and branch voltage, respectively.

When the integer parameter `i_compute_strt` is specified as 1, the initial value of the inductor current is internally computed in the synchronous machine template and is passed to `l_pu_sync.ece` through a Fortran common block. The integer parameter `indx` is used to specify whether the inductor is in phase a, b, or c line.

AC behaviour is not implemented.