

Please find below the set of algebraic equations for the flattened Implicit
CBD:

$$\left\{ \begin{array}{lcl} \text{var}(b.O_1)^{[s+1]} & = & \text{var}(a.I_C)^{[0]} \\ \text{var}(c.O_1)^{[s+1]} & = & \text{var}(a.I_1)^{[s]} \\ \text{var}(e.O_1)^{[s+1]} & = & \text{var}(d.I_C)^{[0]} \\ \text{var}(f.O_1)^{[s+1]} & = & \text{var}(d.I_1)^{[s]} \\ \text{var}(h.O_1)^{[s+1]} & = & \text{var}(c.I_1)^{[s+1]} \\ \text{var}(a.O_1)^{[s+1]} & = & \text{var}(c.I_2)^{[s+1]} \\ \text{var}(i.O_1)^{[s+1]} & = & \text{var}(f.I_1)^{[s+1]} \\ \text{var}(d.O_1)^{[s+1]} & = & \text{var}(f.I_2)^{[s+1]} \\ \text{var}(f.O_1)^{[s+1]} & = & \text{var}(h.I_1)^{[s+1]} \\ \text{var}(g.O_1)^{[s+1]} & = & \text{var}(h.I_2)^{[s+1]} \\ \text{var}(c.O_1)^{[s+1]} & = & \text{var}(j.I_1)^{[s+1]} \\ \text{var}(g.O_1)^{[s+1]} & = & \text{var}(j.I_2)^{[s+1]} \\ \text{var}(j.O_1)^{[s+1]} & = & \text{var}(i.I_1)^{[s+1]} \\ \text{var}(k.O_1)^{[s+1]} & = & \text{var}(l.I_1)^{[s+1]} \\ \text{var}(m.O_1)^{[s+1]} & = & \text{var}(l.I_2)^{[s+1]} \\ \text{var}(l.O_1)^{[s+1]} & = & \text{var}(n.I_1)^{[s+1]} \\ \text{var}(g.O_1)^{[s+1]} & = & \text{var}(m.I_1)^{[s+1]} \\ \text{var}(n.O_1)^{[s+1]} & = & \text{var}(o.I_1)^{[s+1]} \\ \text{var}(f.O_1)^{[s+1]} & = & \text{var}(p.I_1)^{[s+1]} \\ \text{var}(c.O_1)^{[s+1]} & = & \text{var}(q.I_1)^{[s+1]} \\ \text{var}(s.s_i)^{[s+1]} & = & \text{var}(r.I_1)^{[s+1]} \\ \text{var}(a.O_1)^{[s+1]} & = & \text{var}(a.I_1)^{[s]} \\ \text{var}(a.O_1)^{[0]} & = & \text{var}(a.I_C)^{[0]} \\ \text{var}(b.O_1)^{[s+1]} & = & 0 \\ \text{var}(d.O_1)^{[s+1]} & = & \text{var}(d.I_1)^{[s]} \\ \text{var}(d.O_1)^{[0]} & = & \text{var}(d.I_C)^{[0]} \\ \text{var}(e.O_1)^{[s+1]} & = & 1 \\ \text{var}(g.O_1)^{[s+1]} & = & 0.001 \\ \text{var}(c.O_1)^{[s+1]} & = & \text{var}(c.I_1)^{[s+1]} + \text{var}(c.I_2)^{[s+1]} \\ \text{var}(f.O_1)^{[s+1]} & = & \text{var}(f.I_1)^{[s+1]} + \text{var}(f.I_2)^{[s+1]} \\ \text{var}(h.O_1)^{[s+1]} & = & \text{var}(h.I_1)^{[s+1]} \times \text{var}(h.I_2)^{[s+1]} \\ \text{var}(j.O_1)^{[s+1]} & = & \text{var}(j.I_1)^{[s+1]} \times \text{var}(j.I_2)^{[s+1]} \\ \text{var}(i.O_1)^{[s+1]} & = & -\text{var}(i.I_1)^{[s+1]} \\ \text{var}(l.O_1)^{[s+1]} & = & \text{var}(l.I_1)^{[s+1]} \times \text{var}(l.I_2)^{[s+1]} \\ \text{var}(n.O_1)^{[s+1]} & = & \sin(\text{var}(n.I_1)^{[s+1]}) \end{array} \right.$$

Given:

- Block **x** is represented by variable **a**
- Block **x0** is represented by variable **b**
- Block **addX** is represented by variable **c**
- Block **y** is represented by variable **d**
- Block **bknSQExb6rf4TQluvZ8h-15** is represented by variable **e**
- Block **addY** is represented by variable **f**
- Block **D** is represented by variable **g**
- Block **bknSQExb6rf4TQluvZ8h-29** is represented by variable **h**
- Block **neg** is represented by variable **i**
- Block **bknSQExb6rf4TQluvZ8h-37** is represented by variable **j**
- Block **bknSQExb6rf4TQluvZ8h-54.time** is represented by variable **k**
- Block **bknSQExb6rf4TQluvZ8h-54.prodSin** is represented by variable **l**
- Block **bknSQExb6rf4TQluvZ8h-54.Din** is represented by variable **m**
- Block **bknSQExb6rf4TQluvZ8h-54.sin** is represented by variable **n**
- Block **bknSQExb6rf4TQluvZ8h-54.sinOut** is represented by variable **o**
- Block **yi** is represented by variable **p**
- Block **xi** is represented by variable **q**
- Block **sinOut** is represented by variable **r**
- Block **bknSQExb6rf4TQluvZ8h-54** is represented by variable **s**