

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

$$\begin{cases} \text{var}(a.O_1)^{[s+1]} &= \text{var}(b.I_1)^{[s+1]} \\ \text{var}(b.O_1)^{[s+1]} &= \text{var}(c.I_1)^{[s+1]} \\ \text{var}(b.O_1)^{[s+1]} &= \sin(\text{var}(b.I_1)^{[s+1]}) \end{cases}$$

Given:

- Block **time** is represented by variable **a**
- Block **sin** is represented by variable **b**
- Block **OUT1** is represented by variable **c**