

→ Detached:

$$d\text{-detached} = 0$$

for $m = 0$ to $t_s - 1$:

$$\text{term} = A_m \times B_m$$

for $k = m+1$ to $t_s - 1$:

$$\text{term} = \text{term} \times C_k$$

$$d\text{-detached} \pm \text{term}$$

$$d\text{-detached} \times = dL / dx_{ts}$$

→ Original:

def compute-path(step):

if step == 0:

$$\text{return } A_0 \times B_0$$

$$\text{direct} = \underline{A_n + B_n}$$

$$\underline{\text{prev_paths} = \text{compute_path}(\text{step} - 1)}$$

$$\text{state_effect} = \underline{C_n + A_n \times D_n}$$

$$\text{return } \underline{\text{direct} + \text{prev_paths} \times \text{state_effect}}$$

$$d\text{-original} = \text{compute_path}(t_s - 1) \times dL / dx_{ts}$$