

$$\begin{array}{ccccccc}
 X_i & \longrightarrow & Y_i & \longrightarrow & Z_i & \longrightarrow & X_i[1] \\
 \downarrow & & \downarrow & & \downarrow & & \downarrow \\
 \bigoplus X_i & \longrightarrow & \bigoplus Y_i & \longrightarrow & Z & \longrightarrow & \bigoplus X_i[1]
 \end{array}$$