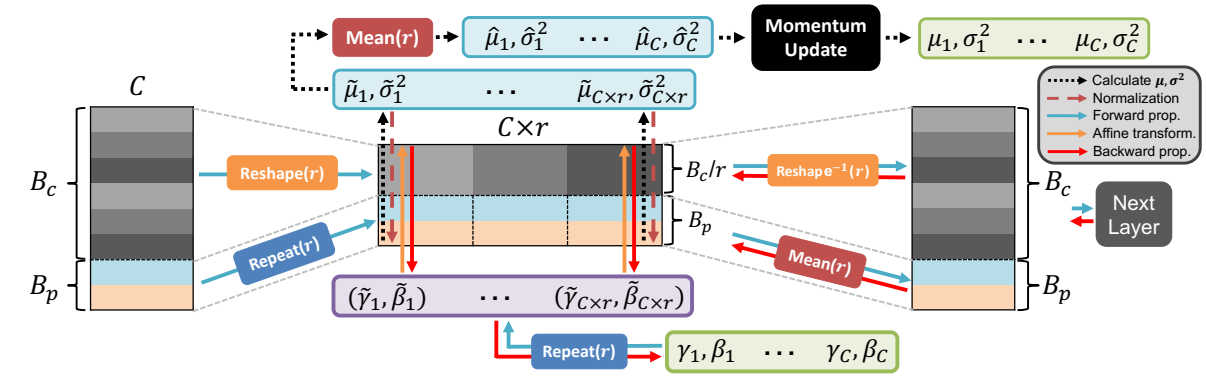

Mean(r)
$\hat{\mu}_1, \hat{\sigma}_1^2 \quad \cdots \quad \hat{\mu}_C, \hat{\sigma}_C^2$
Momentum Update
$\mu_1, \sigma_1^2 \quad \cdots \quad \mu_C, \sigma_C^2$
$\tilde{\mu}_1, \tilde{\sigma}_1^2 \quad \cdots \quad \tilde{\mu}_{C\times r}, \tilde{\sigma}_{C\times r}^2$
Calculate μ, σ^2
Normalization
Forward prop.
Affine transform.
Backward prop.
C
$C\times r$
B_c
B_p
B_c/r
Reshape(r)
Repeat(r)
Reshape^{-1}(r)
Mean(r)
Next Layer
$(\tilde{\gamma}_1, \tilde{\beta}_1) \quad \cdots \quad (\tilde{\gamma}_{C\times r}, \tilde{\beta}_{C\times r})$
Repeat(r)
$\gamma_1, \beta_1 \quad \cdots \quad \gamma_C, \beta_C$