

$$(b_m^k)^* = \left\lfloor \log_2 \left( \frac{R_m^k \sqrt{d}}{\left\| \nabla f_m(\boldsymbol{\theta}^k) - \mathbf{q}_m^{k-1} \right\|_2} + 1 \right) \right\rfloor$$

100%-50%@CIFAR-10@IID

