

Communication Flow	Bit Length of Message
ED \rightarrow FD	$N_C \cdot 2 n $
FDs \rightarrow SD _d	$N \cdot N_C \cdot 2 n $
SD _d \rightarrow SD _u	$l^2(2\kappa_1 + 2\kappa_3 + \kappa_N)$
SD _d \rightarrow SD _v	$N^2(2\kappa_1 + 2\kappa_3 + \kappa_l)$