

# Example: Impact of Delay-Bandwidth Product

$n_f=1250$  bytes = 10000 bits,  $n_a=n_o=25$  bytes = 200 bits

	Delay × Bandwidth Product Efficiency			
Reaction time Distance	1 ms 200 km	10 ms 2000 km	100 ms 20000 km	1 sec 200000 km
1 Mbps	$10^3$ 88%	$10^4$ 49%	$10^5$ 9%	$10^6$ 1%
1 Gbps	$10^6$ 1%	$10^7$ 0.1%	$10^8$ 0.01%	$10^9$ 0.001%

*Stop-and-Wait does not work well for very high speeds or long propagation delays*