$$C_2 = C_1 + log2 = log2,$$

$$C_4 = log2 + log4,$$

$$C_8 = log2 + log4 + log8,$$

$$...$$

$$=> C_n = log2(1 + 2 + \cdots + log_2 n),$$

$$C_n = log2(1 + log_2 n)\frac{log_2 n}{2}.$$

*Answer provided by AssignmentExpert.com*