

Erlang B

$$\underline{A} := 2$$

$$P_0 := \frac{1}{1 + A + \frac{A^2}{2}}$$

$$P_1 := A \cdot P_0$$

$$P_2 := \frac{A^2}{2} \cdot P_0$$

$$P_0 \rightarrow \frac{1}{5}$$

$$P_1 \rightarrow \frac{2}{5}$$

$$P_2 \rightarrow \frac{2}{5}$$

$$PB := P_2$$

$$PB = 0.4$$

Engset

$$\underline{N} := 5$$

$$Au := \frac{A}{N}$$

$$\underline{P_0} := \frac{1}{1 + N \cdot Au + \frac{N \cdot (N - 1)}{2} \cdot Au^2}$$

$$\underline{P_1} := N \cdot Au \cdot P_0$$

$$\underline{P_2} := \frac{N - 1}{2} \cdot Au \cdot P_1$$

$$P_0 \rightarrow \frac{5}{23}$$

$$P_1 \rightarrow \frac{10}{23}$$

$$P_2 \rightarrow \frac{8}{23}$$

$$\underline{PB} := \frac{(N - 2) \cdot P_2}{N \cdot P_0 + (N - 1) \cdot P_1 + (N - 2) \cdot P_2}$$

$$PB \rightarrow \frac{24}{89}$$

$$PB = 0.27$$