$$P_{заг} = 1 - \left[(1 - \hat{n} P_{on}) \right]^m \qquad m = K + 1$$

$$T_{заг} = \frac{1}{\lambda_0} + \frac{1}{2\lambda_0} + \dots + \frac{1}{(K+1)\lambda_0} =$$

$$= \frac{1}{\lambda_0}\left(1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{K+1}\right)$$

$$\lambda_{заг}(t) = \frac{\lambda_0 (K+1) \exp(-\lambda_0 t)\left[1 - \exp(-\lambda_0 t)\right]^K}{1 - \left[1 - \exp(-\lambda_0 t)\right]^{K+1}}$$

пасивне загальне резервування

$$P_{роз} = \prod_{i=1}^{n} \left[1 - (1 - P_{Ci})^{K+1}\right]$$

$$T_{роз} = \frac{(n-1)!}{\lambda_0 (K+1)} \sum_{i=0}^{K} \frac{1}{\frac{n+1}{K+1} - \left(\frac{n+1}{K+1} + 1\right) \cdot \ldots}$$

$$\ldots \times \left(\frac{n+1}{K+1} + n - 1\right)$$

Пасивне роздільне резервування

$$\lambda_{роз} = \frac{n!(k+1)\lambda_0 \exp(-\lambda_0 t)\left[1-\exp(-\lambda_0 t)\right]^k}{1-\left[1-\exp[-\lambda_0 t]\right]^{k+1}}$$

$$P_{ковз} = \sum_{\eta=0}^{k+1-m} C_{k+1}^{\eta} P^{k+1-\eta}(t) \sum_{j=0}^{\eta} (-1)^j C_{\eta}^{j} P^{j}(t)$$

$$T_{ковз} = \frac{1}{\lambda} \sum_{\eta=0}^{k+1-m} \frac{1}{m+\eta}$$

Ковзке резервування

$$P_{k+1}(t) = P_k(t) + \int_0^t P_{k+1}(t-\tau) f_k(\tau)\, d\tau$$

$$P_{k+1}(t) = \exp(-\lambda_0 t) \sum_{\eta=0}^{k} \frac{(\lambda_0 t)^2}{\eta!}$$

$$T = \frac{k+1}{\lambda_0}$$

активне ненавантажене резурвування

$$P_{k+1}(t) = P_k(t) + \int_0^t P_{k+1}(\tau) P_{k+1}(t-\tau) f_k(\tau)\, d\tau$$

$$P_{k+1}(t) = P_k(t) + \frac{C_k}{k!} \exp(-\lambda t)\, \lambda$$

$$\lambda (1 - \exp[-\lambda_j t])^k$$

$$C_k = \prod_{j=0}^{k-1} \left(j + \frac{\lambda}{\lambda_j} \right)$$

$$T = \frac{1}{\lambda} \sum_{j=0}^{k} \frac{1}{1 + j \frac{\lambda_j}{\lambda}}$$

полегшений резерв