

Introduction Compute the test time required to estimate the Bit Error Rate (BER) on a transport to a given confidence level.

Analysis

Definition of the Confidence level approximation

test function based upon solve block

Starting Values

Guess Values

$CL := 0.99$ Confidence Level
 $N := 0$ Number of Errors During Test
 $\rho := 10^{-10}$ Required BER (Bit Rate Error)
 $n := 10^{11}$ Number of Bits Tested

$$T_B(f_{Rate}, CL, N, \rho) := \frac{n_{Ref}(CL, N, \rho)}{f_{Rate}}$$

Example calculation

$$f_{Rate} := 622 \cdot 10^6 \cdot Hz \quad \rho := 10^{-10}$$

$$T_B(f_{Rate}, .50\%, 1, \rho) = 74 \text{ s}$$

Nonlinear Function Specification

Constraints

$$n = \frac{-\ln(1-CL)}{\rho} + \frac{\ln\left(\sum_{k=0}^N \frac{(n \cdot \rho)^k}{k!}\right)}{\rho}$$

Solver

$$n_{Ref}(CL, N, \rho) := \text{find}(n)$$



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