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  LOGARITHMIC BINOMIAL REDUNDANT RELIABILITY (LOGBIN.BAS)

  ORIGINAL DATE: Circa 1986
  REVISION DATE: November 8, 2020
  AUTHOR: Phil Rutherford (www.philrutherford.com)
  RUN DATE: 09-11-2020 (DD-MM-YYYY)
  RUN TIME: 10:21:07
  RUN WITH MMBASIC.EXE (www.mmbasic.com)

  COMPUTES RELIABILITY OF OPERATING PARALLEL REDUNDANT UNITS
  USING LOGARITHMIC BINOMIAL EXPANSION

  MINIMUM NUMBER OF OPERATING UNITS REQUIRED            ? 10
  MAXIMUM NUMBER OF OPERATING REDUNDANT UNITS AVAILABLE ? 10
  UNIT FAILURE RATE (/HR)                               ? 0.000001
  MISSION TIME (HR)                                     ? 87600

  RELIABILITY IS 0.416445366   Pr(=> 10/ 10.S)
  RELIABILITY IS 0.7657295287  Pr(=> 10/ 11.S)
  RELIABILITY IS 0.9268543482  Pr(=> 10/ 12.S)
  RELIABILITY IS 0.9809102722  Pr(=> 10/ 13.S)
  RELIABILITY IS 0.9956451832  Pr(=> 10/ 14.S)
  RELIABILITY IS 0.9991055841  Pr(=> 10/ 15.S)
  RELIABILITY IS 0.9998311674  Pr(=> 10/ 16.S)
  RELIABILITY IS 0.9999702683  Pr(=> 10/ 17.S)
  RELIABILITY IS 0.9999950602  Pr(=> 10/ 18.S)
  RELIABILITY IS 0.9999992189  Pr(=> 10/ 19.S)
  RELIABILITY IS 0.9999998817  Pr(=> 10/ 20.S)

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