Even parity:

\[ V_1: 0000 0000 0 \rightarrow \text{valid code word} \]

\[ I_1: 0000 0001 0 \rightarrow \text{invalid code word} \]
Software Fault Tolerance

1-4 software bugs every 1KLOC.

Software fault model

\[ B = f \left( \frac{SM}{CC}, \frac{CC}{DP}, \frac{PC}{TM} \right) \]

Bug density \quad SW development method

\text{Cycle} \quad \text{complexity}

\text{SW} \quad \text{Test method}

n branch points in your program (each branch can take a TRUE or a FALSE edge)

\# paths in your program? (Range)