Software Complexity

nesbrig levels
of loops

o Size of each function

levels of indirection

o # paths

Cyclomatic complexity

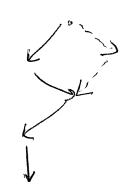
n branch points

upper bound on # paths

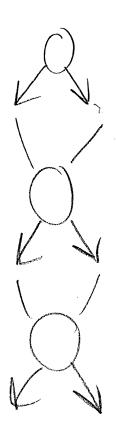
Lower bound on # paths

Symbolic execution

KLOC rooo lines of executable code



Upper bound for # paths = 2"



TOF Lower bound for # paths = n+1

Branch testing

Z = X * Y $E_1 : Z_1 = X * Y$ $E_2 : Z_2 = (2 X) * (2 Y)$ $Z_3 = Z_2 / 4$