

Fault models

Possible Operator Faults:

1. Operator held within comment
2. Operator held within string

Covered by : opfaultblacktest.java

Possible Operand Faults:

1. Operand held within comment
2. Operand held within string

Covered by : opfaultblacktest.java

Possible Halstead Faults (which effect ALL Halstead checkers):

1. Operand held within comment
2. Operator held within comment
3. Operand held within comment
4. Operator held within comment

Covered by : opfaultblacktest.java

5. Non-distinct operand being counted twice
6. Non-distinct operator being counted twice

Covered by : halfaultblacktest.java

Possible Halstead Faults (for Volume, Vocabulary, Effort, and Difficulty)

1. Divide by zero error (would occur in empty test)

Covered by : emptyblacktest.java

Possible While loop Faults

1. Loop being counted within string
2. Loop being counted within comment
3. Loop being counted without brackets
4. Other branch statements (if else) being counted as loop

Covered by : loopfaultblacktest.java

Possible Expression Faults

1. Switch statement mistaken as expression
2. Loop mistaken as expression
3. Conditional taken as expression
4. Comment block or line mistaken as expression

Covered by : expressionfaultblacktest.java

Possible Faults for Comment Check

1. Comment held within comment being falsely counted
2. Comment held within string being falsely counted

Covered by commentfaultblacktest.java

Possible Faults for Comment Line Check

1. Comment held within comment being falsely counted
2. Comment held within string being falsely counted
3. Empty line being counted as line of comment in block
4. Empty line being counted as line of comment in single

Covered by commentfaultblacktest.java