

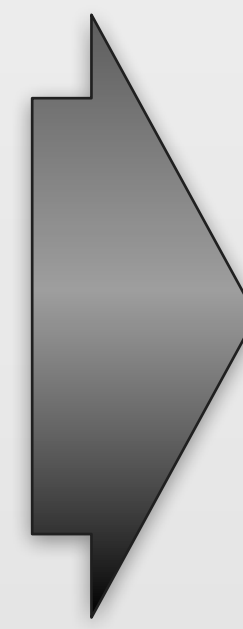
# Isolating General Failure Conditions

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## Input

```
public void testBrazil() {  
    String brazil = "America/Sao_Paulo";  
    DateTimeZone dtz = DateTimeZone.forID(brazil);  
    LocalDate date = new LocalDate(2009, 10, 18);  
    Interval interval = date.toInterval(dtz);  
}
```

JODA TIME bug 2487417

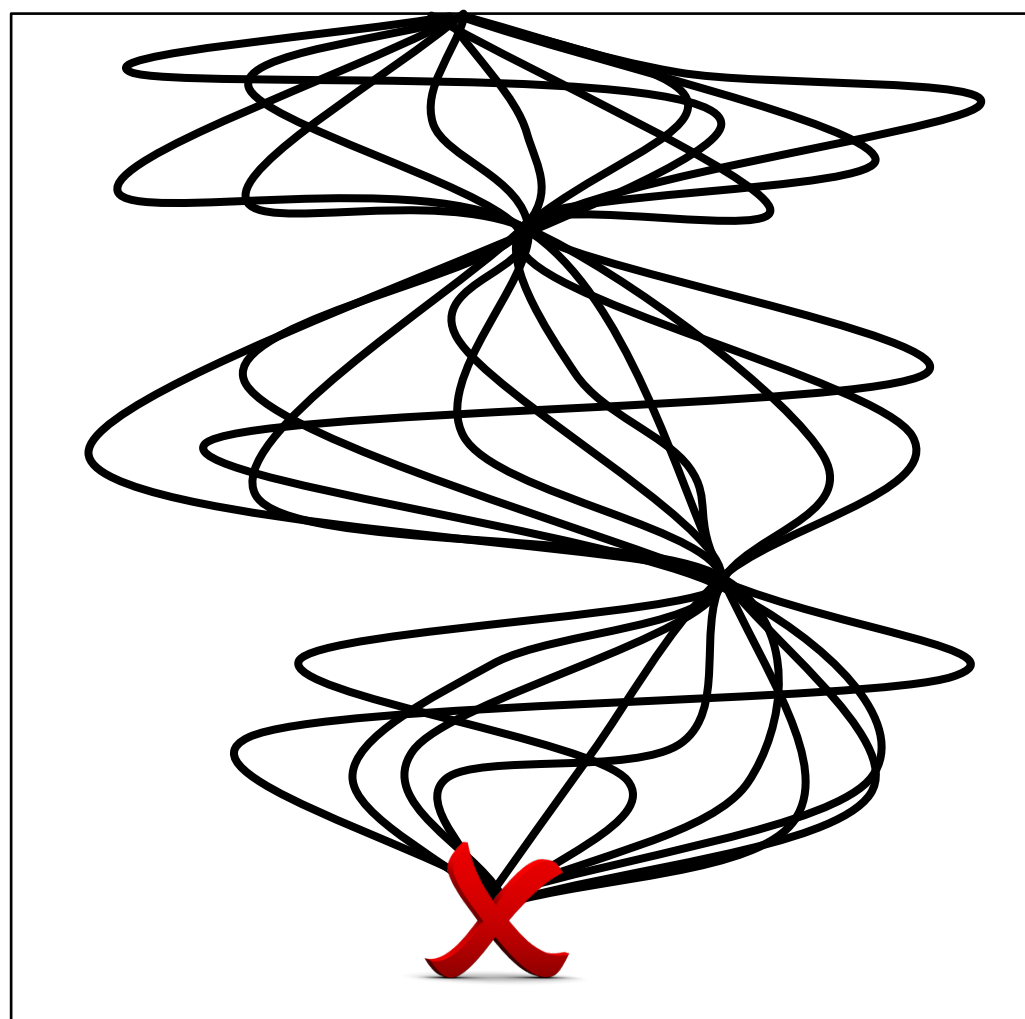


## Failure Condition

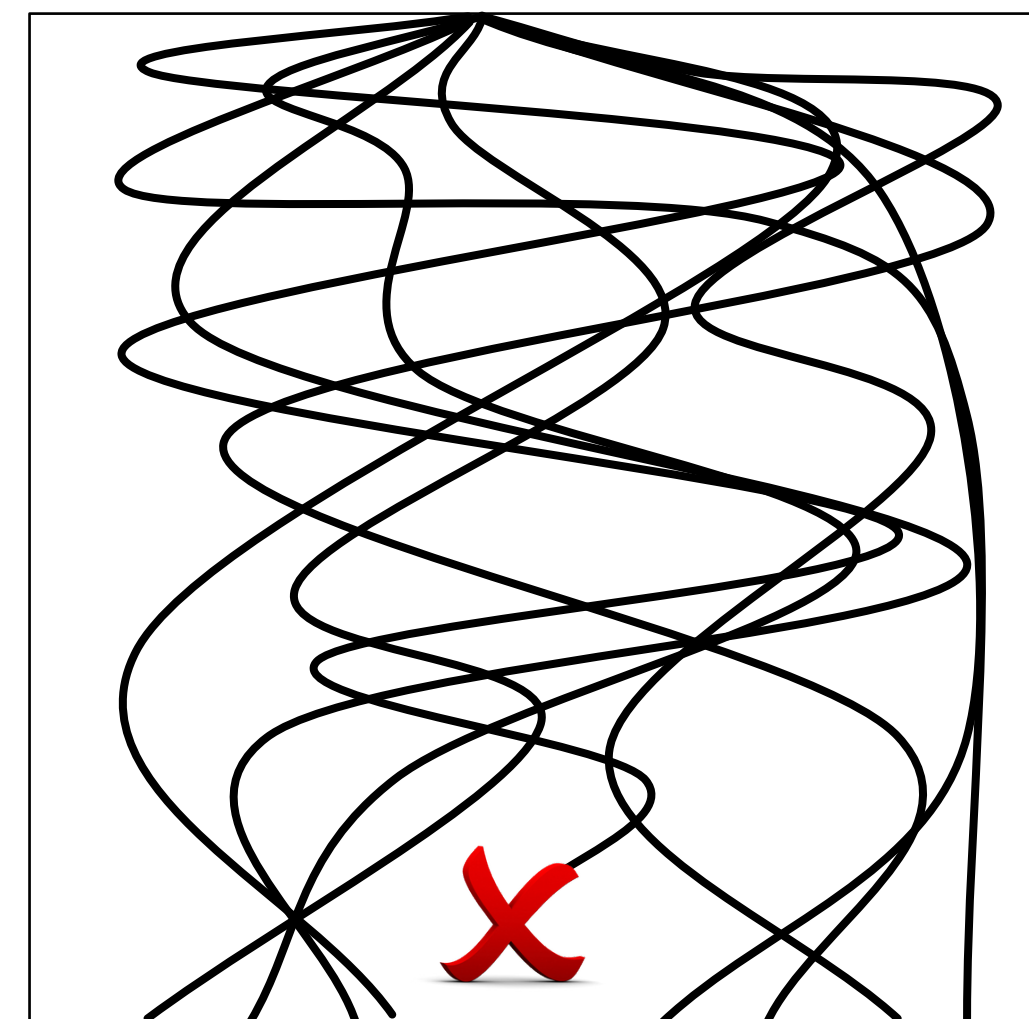
```
isDaylightCutDay()  
    &&  
(cutoverTime = 00:00:00)
```

## Current State of our Work

Negating individual constraints of an execution path



converges locally



diverges globally

## Future Work

- 1) Create executions similar to failing runs
- 2) Gather facts:
  - definition/usage-pairs
  - path conditions
  - branches
  - loop iterations
  - variable values
- 3) Find differences

