

## Randomization Options in JPF

The randomization options in JPF allow the user to experiment in randomizing the order of choices explored.

**cg.randomize\_choices** can have three possible values: random, path, def.

- **random**: It explores random choices during program execution with **varying results among different trials**. The default seed used to generate different results is the **system time in milliseconds**
- **path**: It explores random choices during program execution with **reproducible results among different trials**. The default seed used to generate reproducible results is **42**. The value of the seed can be changed by setting the seed config option.
- **def**: No randomization, choices are explored using the default search order imposed by the model checker.

**cg.seed** (\_INT\_): The user can specify a particular seed for the random number generator in order to obtain reproducible results in the presence of randomization. Note that this is effective only when the **path** option of randomize\_choices is selected.