

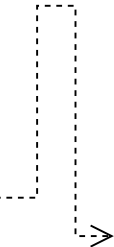
Main**Init:**

```
system = System(xy)
stochastic = Stochastic("Method",xy)
solver = Solver(xy)
```

Machine / Cray

- + MPI (Bool)
- + MaxCores (Integer)
- + MaxMemory ? (integer)
- + SystemName (String)
- + Scheduler (Class)
- + Solver (Class)
- + iterWalltime
- + iterCores

- + **runBatch(self.Scheduler)**
 - => **generateJob**
 - submitJob**
 - monitorJob**
 - restartCommand=checkSimulation()**
- + **generateJob(iterCores,iterWalltime)**
- + **submitJob(self.SystemName)**
- + **monitorJob(self.SystemName)**
- + **allocateResources(iterCores,iterWalltime)**



uqMethod							
	<table><tr><th colspan="2">uqMethod</th></tr><tr><td colspan="2"><div>+ nStochDim[Integer] + distribution(StochDim) [RealArray] + Method [String] + MethodClass = NISP/MLMC() + nSamples + weights + samples + level(dict)</div></td></tr><tr><td colspan="2"><div>+ Stochastic(self.Method, self.StochDim, self.Distribution) + runSimulation() while true: => nSamples = allocateResources(dofsCore) samples,weights = getSamplesAndWeights(nSamples,distribution,nStochDim) prepareSimulation(samples,weights) runBatch(mainSolver) runBatch(postprocSolver) if lastIter: break else: getNSamples</div></td></tr></table>	uqMethod		<div>+ nStochDim[Integer] + distribution(StochDim) [RealArray] + Method [String] + MethodClass = NISP/MLMC() + nSamples + weights + samples + level(dict)</div>		<div>+ Stochastic(self.Method, self.StochDim, self.Distribution) + runSimulation() while true: => nSamples = allocateResources(dofsCore) samples,weights = getSamplesAndWeights(nSamples,distribution,nStochDim) prepareSimulation(samples,weights) runBatch(mainSolver) runBatch(postprocSolver) if lastIter: break else: getNSamples</div>	
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MLMC							
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FLEXI

+ listQols
+ cost
+ runCommand
+ dofsCore
+ exePath
+ arguments

+ generateRunCommand()
+ prepareSimulation()
 => write HDF5 file
 runCommand = generateRunCommand(exePath,arguments)
+ checkSimulation()
 => evaluateCost()

Qol1

+ EndIterCommand()
+ EndCompCommand()

Qol2

+ EndIterCommand()
+ EndCompCommand()