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Teller.py
    #!/usr/bin/env python
    ....
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   Date:
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   Desc:
           SimPy simulation of a single-teller Bank teller
   from SimPy.Simulation import *
   from random import expovariate, seed
    # Constant values for initial simulation environment
   BEGINTIME = 0
   SECINHOUR = 3600
   MAXCUSTOMERS = 1000
    INTERARRIVAL = 60
   SERVICE = 45
    class Source(Process):
        """Generates customers for simulation"""
        def generate(self,number,interarrival,resource):
            for i in range(number):
                tempCust = Customer(name = "Customer%02d"%(i,))
                activate(tempCust, tempCust.visit())
                yield hold, self, interarrival
    class Customer (Process):
        """Customer arrives, looks around, and leaves"""
        def visit(self):
            arrive=now()
           yield request, self, teller
           yield hold, self, SERVICE
           yield release, self, teller
            serviceWait = now()-arrive
            simMon.observe(serviceWait)
            simMon.min = min(simMon.min, serviceWait)
            simMon.max = max(simMon.max, serviceWait)
    ## Model/Experiment
    teller = Resource(name="Teller", unitName="Teller")
    simMon = Monitor()
    simMon.min = sys.maxint
   simMon.max = -sys.maxint
    initialize()
   world = Source(name='OutsideWorld')
   activate(world.generate(number=MAXCUSTOMERS, interarrival=INTERARRIVAL, resou
   rce=teller),at=BEGINTIME)
   simulate(until=SECINHOUR)
   print "Customers Served: %d"%simMon.count()
   print "Average Service Time (secs): %d"%simMon.mean()
   print "Maximum Service Time (secs): %d"%simMon.max
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print "Minimum Service Time (secs): %d"%simMon.min