set val(chan) Channel/WirelessChannel  
set val(prop) Propagation/TwoRayGround  
set val(netif) Phy/WirelessPhy  
set val(mac)          Mac/802\_11  
set val(ifq) Queue/DropTail/PriQueue  
set val(ll) LL  
set val(ant)          Antenna/OmniAntenna  
set val(x)      500  
set val(y)      500  
set val(ifqlen) 50  
set val(nn) 5  
set val(stop) 50.0  
set val(rp) AODV  
  
  
set ns\_ [new Simulator]  
  
set tracefd [open [uniform\_error.tr](http://uniform_error.tr/) w]  
$ns\_ trace-all $tracefd  
  
set namtrace [open uniform\_error.nam w]  
$ns\_ namtrace-all-wireless $namtrace $val(x) $val(y)  
  
set prop [new $val(prop)]  
  
set topo [new Topography]  
$topo load\_flatgrid $val(x) $val(y)  
  
create-god $val(nn)  
  
$ns\_ node-config -adhocRouting $val(rp) \  
-llType $val(ll) \  
-macType $val(mac) \  
-ifqType $val(ifq) \  
-ifqLen $val(ifqlen) \  
-antType $val(ant) \  
-propType $val(prop) \  
-phyType $val(netif) \  
-channelType $val(chan) \  
-topoInstance $topo \  
-agentTrace ON \  
-routerTrace ON \  
-macTrace ON \  
-IncomingErrProc "uniformErr1" \  
-OutgoingErrProc "uniformErr1"  
  
proc uniformErr1 {} {  
set err [new ErrorModel]  
$err unit pkt  
$err set rate\_ 0.1 #error rate 0.1 means 10% , give less only  
return $err  
}  
  
  
for {set i 0} {$i < $val(nn) } {incr i} {  
     set n($i) [$ns\_ node]  
     $n($i) random-motion 0  
}  
#Initial Positions of Nodes  
  
for {set i 0} {$i < $val(nn)} {incr i} {  
$ns\_ initial\_node\_pos $n($i) 20  
}  
  
#Topology Design  
  
$ns\_ at 1.0 "$n(0) setdest 10.0 10.0 50.0"  
$ns\_ at 1.0 "$n(1) setdest 10.0 100.0 50.0"  
$ns\_ at 1.0 "$n(2) setdest 50.0 50.0 50.0"  
$ns\_ at 1.0 "$n(3) setdest 100.0 100.0 50.0"  
$ns\_ at 1.0 "$n(4) setdest 100.0 10.0 50.0"  
  
#Generating Traffic  
   set tcp0 [new Agent/TCP]  
      set sink0 [new Agent/TCPSink]  
   $ns\_ attach-agent $n(0) $tcp0  
       $ns\_ attach-agent $n(2) $sink0  
   $ns\_ connect $tcp0 $sink0  
   set ftp0 [new Application/FTP]  
   $ftp0 attach-agent $tcp0  
   $ns\_ at 1.0 "$ftp0 start"  
       $ns\_ at 50.0 "$ftp0 stop"  
  
         set tcp1 [new Agent/TCP]  
      set sink1 [new Agent/TCPSink]  
   $ns\_ attach-agent $n(1) $tcp1  
       $ns\_ attach-agent $n(2) $sink1  
   $ns\_ connect $tcp1 $sink1  
   set ftp1 [new Application/FTP]  
   $ftp1 attach-agent $tcp1  
   $ns\_ at 1.0 "$ftp1 start"  
       $ns\_ at 50.0 "$ftp1 stop"  
  
  
for {set i 0} {$i < $val(nn) } {incr i} {  
    $ns\_ at $val(stop) "$n($i) reset";  
    }  
  
    $ns\_ at $val(stop) "puts \"NS EXITING...\" ; $ns\_ halt"  
exec nam uniform\_error.nam &  
  
puts "Starting Simulation..."  
       
     $ns\_ run

 