set val(chan) Channel/WirelessChannel ;#channel type

set val(prop) Propagation/TwoRayGround

set val(netif) Phy/WirelessPhy ;#network interface t

set val(mac) Mac/802\_11 ;#MAC type

set val(ifq) Queue/DropTail/PriQueue ;#interface queue type

set val(ll) LL ;#link layer type

set val(ant) Antenna/OmniAntenna ;#antena model

set val(ifqlen) 100 ;#max packet in ifq

set val(mn) 3

set val(rp) AODV

set val(x) 500

set val(y) 500

set val(stop) 110

set ns [new Simulator]

set nf1 [open simple.tr w]

$ns trace-all $nf1

set topo [new Topography]

$topo load\_flatgrid $val(x) $val(y)

create-god $val(mn)

set nf [open adhoc.nam w]

$ns namtrace-all $nf

$ns namtrace-all-wireless $nf $val(x) $val(y)

set chan [new $val(chan)]

$ns node-config -adhocRouting $val(rp)\

-llType $val(ll)\

-macType $val(mac)\

-propType $val(prop)\

-ifqType $val(ifq)\

-ifqLen $val(ifqlen)\

-antType $val(ant)\

-phyType $val(netif)\

-channel $chan\

-topoInstance $topo\

-agentTrace ON\

-routerTrace OFF\

-macTrace ON\

-movementTrace ON\

for {set i 0} {$i < $val(mn)} {incr i} {

set n\_($i) [$ns node]

}

$n\_(0) set X\_ 5.0

$n\_(0) set Y\_ 5.0

$n\_(0) set Z\_ 0.0

$n\_(1) set X\_ 390.0

$n\_(1) set Y\_ 180.0

$n\_(1) set Z\_ 0.0

$n\_(2) set X\_ 250.0

$n\_(2) set Y\_ 120.0

$n\_(2) set Z\_ 0.0

$ns at 7.0 "$n\_(0) setdest 35.0 45.0 3.0"

$ns at 5.0 "$n\_(2) setdest 45.0 35.0 3.0"

$ns at 10.0 "$n\_(1) setdest 105.0 50.0 3.0"

set udp0 [new Agent/UDP]

set null0 [new Agent/Null]

$ns attach-agent $n\_(0) $udp0

$ns attach-agent $n\_(1) $null0

$ns connect $udp0 $null0

set cbr0 [new Application/Traffic/CBR]

$cbr0 set packetSize\_ 512

$cbr0 set rate\_ 600kb

$cbr0 set interval\_ 0.05

$cbr0 set random\_ 1

$cbr0 set maxpkts\_ 10000

$cbr0 attach-agent $udp0

$ns at 2.0 "$cbr0 start"

for {set i 0} {$i < $val(mn)} {incr i} {

$ns initial\_node\_pos $n\_($i) 30

}

for {set i 0} {$i<$val(mn)} {incr i} {

$ns at $val(stop) "$n\_($i) reset"

}

$ns at $val(stop) "stop"

$ns at 110.00 "puts \" end simulation...\";$ns halt"

proc stop {} {

global ns nf nf1

$ns flush-trace

close $nf

close $nf1

exec nam out.nam &

exit 0

}

puts "Starting Simulation..."

$ns run