#Creating trace file and nam file set tracefd [open dsdv.tr w] set windowVsTime2 [open win.tr w] set namtrace [open dsdv.nam w]

$ns trace-all $tracefd $ns namtrace-all-wireless $namtrace $val(x) $val(y)

# set up topography object set topo [new Topography]

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

create-god $val(nn)

# configure the nodes $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 OFF \ -movementTrace ON for {set i 0} {$i < $val(nn) } { incr i } { set node\_($i) [$ns node] }

# Provide initial location of mobilenodes $node\_(0) set X\_ 5.0 $node\_(0) set Y\_ 5.0 $node\_(0) set Z\_ 0.0

$node\_(1) set X\_ 490.0 $node\_(1) set Y\_ 285.0 $node\_(1) set Z\_ 0.0

$node\_(2) set X\_ 150.0 $node\_(2) set Y\_ 240.0 $node\_(2) set Z\_ 0.0

# Generation of movements $ns at 10.0 "$node\_(0) setdest 250.0 250.0 3.0" $ns at 15.0 "$node\_(1) setdest 45.0 285.0 5.0" $ns at 110.0 "$node\_(0) setdest 480.0 300.0 5.0"

# Set a TCP connection between node\_(0) and node\_(1) set tcp [new Agent/TCP/Newreno] $tcp set class\_ 2 set sink [new Agent/TCPSink] $ns attach-agent $node\_(0) $tcp $ns attach-agent $node\_(1) $sink $ns connect $tcp $sink set ftp [new Application/FTP] $ftp attach-agent $tcp $ns at 10.0 "$ftp start"

# Printing the window size proc plotWindow {tcpSource file} { global ns set time 0.01 set now [$ns now] set cwnd [$tcpSource set cwnd\_] puts $file "$now $cwnd" $ns at [expr $now+$time] "plotWindow $tcpSource $file" } $ns at 10.1 "plotWindow $tcp $windowVsTime2"

# Define node initial position in nam for {set i 0} {$i < $val(nn)} { incr i } { # 30 defines the node size for nam $ns initial\_node\_pos $node\_($i) 30 }

# Telling nodes when the simulation ends for {set i 0} {$i < $val(nn) } { incr i } { $ns at $val(stop) "$node\_($i) reset"; }

# ending nam and the simulation $ns at $val(stop) "$ns nam-end-wireless $val(stop)" $ns at $val(stop) "stop" $ns at 150.01 "puts \"end simulation\" ; $ns halt" proc stop {} { global ns tracefd namtrace $ns flush-trace close $tracefd close $namtrace

exec nam dsdv.nam & exit 0 }

$ns run

# How to run the program:

$ns dsdv.tcls