# This script is created by NSG2 beta1

# <http://wushoupong.googlepages.com/nsg>

#===================================

# Simulation parameters setup

#===================================

set val(stop) 10.0 ;# time of simulation end

#===================================

# Initialization

#===================================

#Create a ns simulator

set ns [new Simulator]

#Open the NS trace file

set tracefile [open out.tr w]

$ns trace-all $tracefile

#Open the NAM trace file

set namfile [open out.nam w]

$ns namtrace-all $namfile

#===================================

# Nodes Definition

#===================================

#Define different colors for data flows (for NAM)

$ns color 1 Blue

$ns color 2 Red

#Create 3 nodes

set n0 [$ns node]

set n1 [$ns node]

set n2 [$ns node]

#===================================

# Links Definition

#===================================

#Createlinks between nodes

$ns duplex-link $n0 $n1 100.0Mb 50ms DropTail

$ns queue-limit $n0 $n1 50

$ns duplex-link $n2 $n1 0.1Mb 1ms DropTail

$ns queue-limit $n2 $n1 50

#Give node position (for NAM)

$ns duplex-link-op $n0 $n1 orient right-down

$ns duplex-link-op $n2 $n1 orient left-down

#===================================

# Agents Definition

#===================================

#Setup a TCP/Reno connection

set tcp0 [new Agent/TCP/Reno]

$ns attach-agent $n0 $tcp0

set sink1 [new Agent/TCPSink]

$ns attach-agent $n2 $sink1

$ns connect $tcp0 $sink1

$tcp0 set packetSize\_ 1500

#===================================

# Applications Definition

#===================================

#Setup a FTP Application over TCP/Reno connection

set ftp0 [new Application/FTP]

$ftp0 attach-agent $tcp0

$ns at 0.5 "$ftp0 start"

$ns at 50.5 "$ftp0 stop"

#===================================

# Termination

#===================================

#Define a 'finish' procedure

proc finish {} {

global ns tracefile namfile

$ns flush-trace

close $tracefile

close $namfile

exec nam out.nam &

exit 0

}

$ns at $val(stop) "$ns nam-end-wireless $val(stop)"

$ns at $val(stop) "finish"

$ns at $val(stop) "puts \"done\" ; $ns halt"

$ns run