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set ns [new Simulator]
$ns rtproto DV
$ns macType MAC/802_3
set nf [open distance.nam w]
$ns namtrace-all $nf
set f0 [open distance.tr w]
$ns trace-all $f0
proc finish {} {
    global ns f0 nf
    $ns flush-trace
    close $f0
    close $nf
    exec nam distance.nam &
    exit 0
}
set n0 [$ns node]
set n1 [$ns node] set n2 [$ns node]
set n3 [$ns node] set n4 [$ns node]
set n5 [$ns node] set n6 [$ns node]
$ns duplex-link $n0 $n1 1Mb 10ms DropTail
$ns duplex-link $n1 $n2 1Mb 10ms DropTail
$ns duplex-link $n2 $n3 1Mb 10ms DropTail
$ns duplex-link $n3 $n4 1Mb 10ms DropTail
$ns duplex-link $n4 $n5 1Mb 10ms DropTail
$ns duplex-link $n5 $n6 1Mb 10ms DropTail
$ns duplex-link $n6 $n0 1Mb 10ms DropTail
set udp0 [new Agent/TCP]
$ns attach-agent $n1 $udp0
set cbr0 [new Application/Traffic/CBR]
$cbr0 set packetSize_ 500
$cbr0 set interval_ 0.005
$cbr0 attach-agent $udp0
set null0 [new Agent/TCPSink]
$ns attach-agent $n3 $null0
$ns connect $udp0 $null0
$ns at 0.05 "$cbr0 start"
$ns rtmodel-at 1.0 down $n1 $n2
$ns rtmodel-at 2.0 up $n1 $n2
$ns at 4.5 "$cbr0 stop"
$ns at 5.0 "finish"
$ns run

```

```

set ns [new Simulator]
$ns rtproto LS
set nf [open linkstate.nam w]
$ns namtrace-all $nf
set nt [open linkstate.tr w]
$ns trace-all $nt
proc finish {} {
    global ns nf nt
    $ns flush-trace
    close $nf
    close $nt
    exec nam linkstate.nam &
    exit 0
}
set n0 [$ns node]
set n1 [$ns node] set n2 [$ns node]
set n3 [$ns node] set n4 [$ns node]
set n5 [$ns node] set n6 [$ns node]
$ns duplex-link $n0 $n1 1Mb 10ms DropTail
$ns duplex-link $n1 $n2 1Mb 10ms DropTail
$ns duplex-link $n2 $n3 1Mb 10ms DropTail
$ns duplex-link $n3 $n4 1Mb 10ms DropTail
$ns duplex-link $n4 $n5 1Mb 10ms DropTail
$ns duplex-link $n5 $n6 1Mb 10ms DropTail
$ns duplex-link $n6 $n0 1Mb 10ms DropTail
set udp0 [new Agent/UDP]
$ns attach-agent $n0 $udp0
set cbr0 [new Application/Traffic/CBR]
$cbr0 set packetize_ 500
$cbr0 set interval_ 0.005
$cbr0 attach-agent $udp0
set null0 [new Agent/Null]
$ns attach-agent $n3 $null0
$ns connect $udp0 $null0
$ns at 0.05 "$cbr0 start"
$ns rtmodel-at 1.0 down $n1 $n2
$ns rtmodel-at 2.0 up $n1 $n2
$ns at 4.5 "$cbr0 stop"
$ns at 5.0 "finish"
$ns run

```