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EXPERIMENT 09

PROBLEM DEFINITION:

Relatively simple multicast configuration between two nodes.

Code:

```
set ns [new Simulator -multicast on]; # enable multicast
routing;

set tracef [open dm.tr w]
$ns trace-all $tracef

set namtracef [open dm.nam w]
$ns namtrace-all $namtracef

set node0 [$ns node]         ;# create multicast capable
nodes;
set node1 [$ns node]

$ns duplex-link $node0 $node1 1.5Mb 10ms DropTail

set mproto DM         ; # configure multicast protocol;
set mrthandle [$ns mrtproto $mproto]; # all nodes will
contain multicast protocol agents;

set group [Node allocaddr]  ; # allocate a multicast
address;

set udp [new Agent/UDP]          ;# create a source agent
at node 0;
$ns attach-agent $node0 $udp
$udp set dst_addr_ $group
$udp set dst_port_ 0

set cbr [new Application/Traffic/CBR]
$cbr attach-agent $udp

set receiver [new Agent/LossMonitor];  # create a
receiver agent at node 1;
$ns attach-agent $node1 $receiver

$ns at 0.3 "$node1 join-group $receiver $group"
$ns at 2.0 "$node1 leave-group $receiver $group"

$ns at 0.4 "$cbr start"
```

```
$ns at 1.5 "$cbr stop"

$ns at 5.0 "finish"

proc finish {} {
       global ns tracef namtracef
        $ns flush-trace
        close $namtracef
       close $tracef
        exec nam dm.nam &
       exit 0
}
$ns run
```

Output: