

```

EthernetHub
EthernetHost
Eth10M
inet node.ethernet
**cli.sendInterval
exponential(100ms)
**cli.reqLength
=
intuniform(50,1400)*1B
**cli.respLength
=
intWithUnit(truncnormal(3000B,3000B))
.sca
.anf
.ranf
rx
channel
idle(%)
rx
channel
utilization(%)
rx
channel
collision(%)
net-
work
through-
put(bit/sec)
to-
tal
num-
ber
of
bits
succ-
fully
ar-
rived
sum-
u-
la-
tion
time
packetReceived:sum(packetBytes)
rx
channel
idle(%)
rx
channel
utilization(%)
rx
channel
collision(%)
packetReceived:sum(packetBytes)
1 ned.pngnetwork for Q1part1
1 ini.pngini file for Q1part1
11723249bits  $\simeq$ 
23450skbps
EthernetHost
EthernetSwitch
rx
channel
idle(%)
rx
channel
utilization(%)
rx
channel
collision(%)
packetReceived:sum(packetBytes)
MAC
address
table
2 ned.pngnetwork for Q1part2
11766733bits  $\simeq$ 
23550skbps
EthernetSwitch
EthernetHub
EthernetHost
EthernetHost
k
k
.ned
network MixedLAN
{
parameters:
...
int k;
...
}

k
for
Eth10M
k
reqLength=500B
k=8
reqLength=500B

```

	Throughput
Scenario 1	
Scenario 2	
Scenario 3	
Scenario 4	
Scenario 5	
Scenario 6	

Table 1: Network throughput for different scenarios