Ezedine Kargougou

Reservations

Reservation created for 4/23/2021 Inbox ×

ORBIT Schedule <schedule@orbit-lab.org>
to me

Ezedine,
You have successfully created reservation #sc41619203984oxa.

Please use this reservation number when contacting the administrator with any questions.

A reservation for 4/23/2021 between 4:00pm and 4:30pm for sb4.orbit-lab.org located at Orbit Facility has been created.

If this is a mistake, please contact the administrator at: schedule@orbit-lab.org or by calling (732) 932-6857.

You can view or modify your reservation information at any time by logging into ORBIT Scheduler at:
https://geni.orbit-lab.org/cPanel/controlPanel/start.

Please direct all technical questions to schedule@orbit-lab.org.

Reservation created

Reservation #	Date	Resource	Start Time	End Time	Location	Contact	Group reservation
sc41619203984oxa	4/23/2021	sb4.orbit-lab.org	4:00pm	4:30pm	Orbit Facility	(732) 932-6857	No/

ORBIT Schedule 2:20 AM (21 hours ago)
Ezedine, Reservation #sc41619147249zhf has been approved by autoApprover. A reservation for 04/23/2021 between 5:30am and 7:30am for sb4.orbit-lab.org located a

ORBIT Schedule 4:20 AM (19 hours ago)
Ezedine, Reservation #sc41619147265zin has been approved by autoApprover. A reservation for 04/23/2021 between 7:30am and 9:30am for sb4.orbit-lab.org located a

ORBIT Schedule <schedule@orbit-lab.org> 6:20 AM (17 hours ago)
to me

Ezedine,
Reservation #sc41619147272aok has been approved by autoApprover.

Please use this reservation number when contacting the administrator with any questions.

A reservation for 04/23/2021 between 9:30am and 10:00am for sb4.orbit-lab.org located at Orbit Facility has been approved.

If this is a mistake, please contact the administrator at: schedule@orbit-lab.org or by calling (732) 932-6857.

You can view or modify your reservation information at any time by logging into ORBIT Scheduler.

Please direct all technical questions to schedule@orbit-lab.org.

Reservation approved

Reservation #	Date	Resource	Start Time	End Time	Location	Contact	Group reservation
sc41619147272aok	04/23/2021	sb4.orbit-lab.org	9:30am	10:00am	Orbit Facility	(732) 932-6857	No/

ORBIT Schedule <schedule@orbit-lab.org>
to me

Ezedine,
Reservation #sc41618854405zbc has been approved by autoApprover.

Please use this reservation number when contacting the administrator with any questions.

A reservation for 04/21/2021 between 12:00pm and 2:00pm for sb4.orbit-lab.org located at Orbit Facility has been approved.

If this is a mistake, please contact the administrator at: schedule@orbit-lab.org or by calling (732) 932-6857.

You can view or modify your reservation information at any time by logging into ORBIT Scheduler.

Please direct all technical questions to schedule@orbit-lab.org.

Reservation approved

Reservation #	Date	Resource	Start Time	End Time	Location	Contact	Group reservation
sc41618854405zbc	04/21/2021	sb4.orbit-lab.org	12:00pm	2:00pm	Orbit Facility	(732) 932-6857	No/

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Problem

I was not able to finish the rest because of the Orbit started bugging. An example is above. It is my current time and I Ath9k is not showing. At times it did work and I was able to do the parts that I have below

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Exercise 2.1

1)

```
root@node1-3:~# netcat 192.168.0.100 4444
hi
hello
root@node1-3:~#
```

```
root@node1-6:~# netcat -l 4444
hi
hello
^C
root@node1-6:~#
```

```
CH 11 ][ Elapsed: 4 mins ][ 2021-04-18 21:31

BSSID              PWR RXQ  Beacons    #Data, #/s  CH  MB   ENC  CIPHER AUTH ESSID

00:15:6D:84:92:CC  -66 100     2818       30    0  11  54   OPN              witestlab-exp

BSSID              STATION            PWR   Rate    Lost  Packets  Probes

00:15:6D:84:92:CC  00:15:6D:85:E0:C6  -64   24 -11      0       24
00:15:6D:84:92:CC  00:15:6D:85:E0:C8  -67    9 -36      0       22

root@node1-5:~#
```

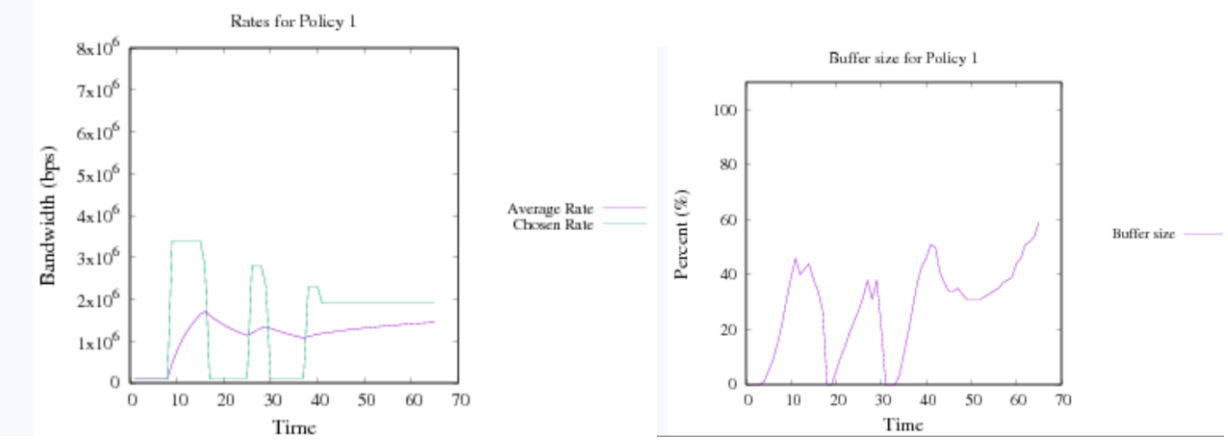
2) I had WireShark downloaded and everything but Orbit started bugging and I couldn't get the info over to WireShark. I asked some people in the class and they had the same problem or were already done or did not know what to do

Exercise 1.1

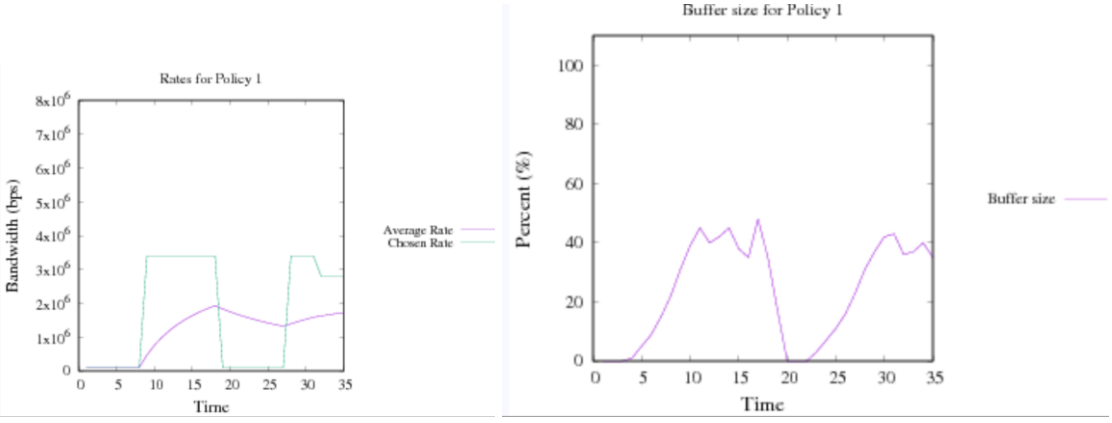
1)

```
root@server:/var/www/html/video# ruby change_rate.rb 4
changing rate to 2mbit
changing rate to 2mbit
changing rate to 4mbit
changing rate to 3mbit
changing rate to 2mbit
changing rate to 1mbit
^Cchange_rate.rb:8:in `sleep': Interrupt
        from change_rate.rb:8:in `<main>'

root@server:/var/www/html/video# ruby change_rate.rb 5
changing rate to 4mbit
changing rate to 5mbit
changing rate to 3mbit
changing rate to 4mbit
changing rate to 2mbit
changing rate to 3mbit
^Cchange_rate.rb:8:in `sleep': Interrupt
        from change_rate.rb:8:in `<main>'

root@server:/var/www/html/video# ruby change_rate.rb 6
changing rate to 4mbit
changing rate to 6mbit
changing rate to 2mbit
changing rate to 1mbit
changing rate to 2mbit
changing rate to 4mbit
^Cchange_rate.rb:8:in `sleep': Interrupt
        from change_rate.rb:8:in `<main>'
```

2) Policy #1 with max rate 4



Policy #1 with max rate 5



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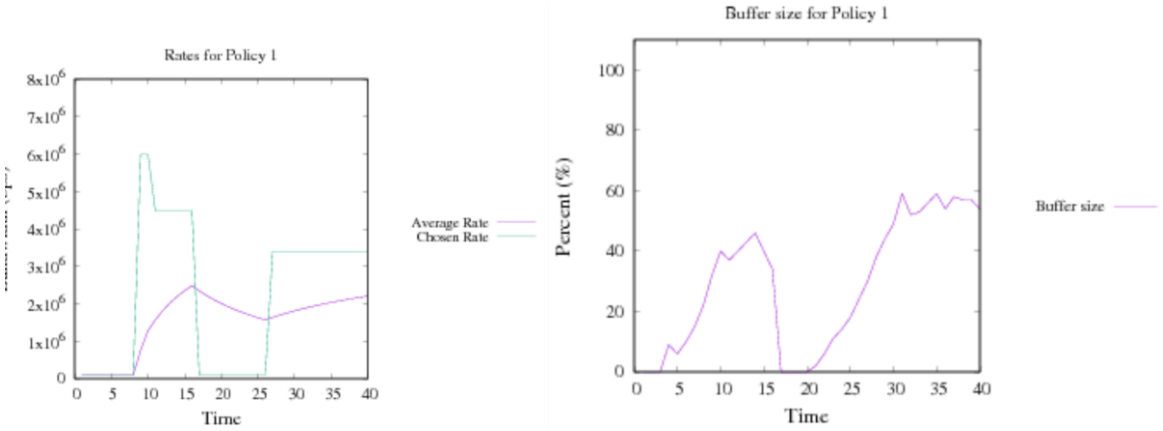
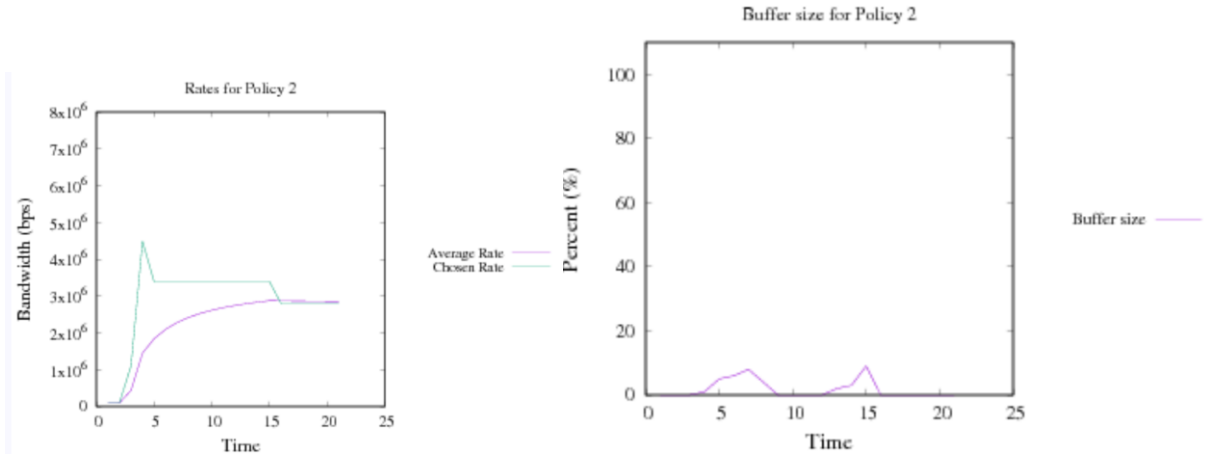
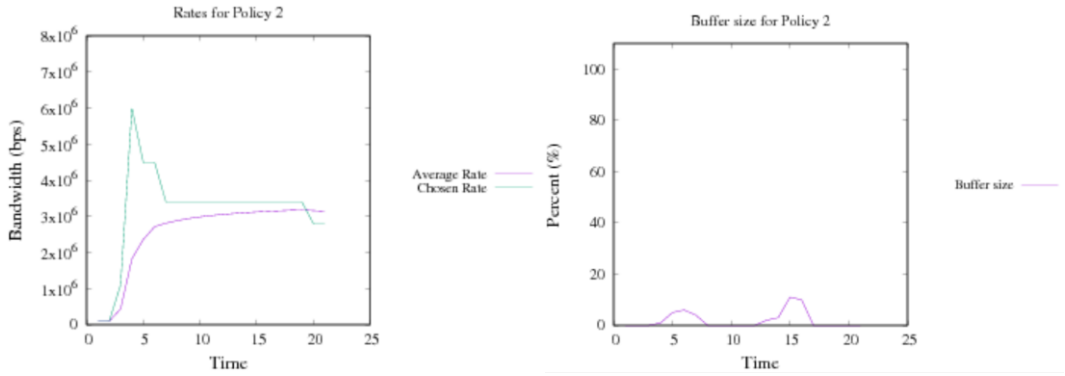
Policy #1 with max rate 6



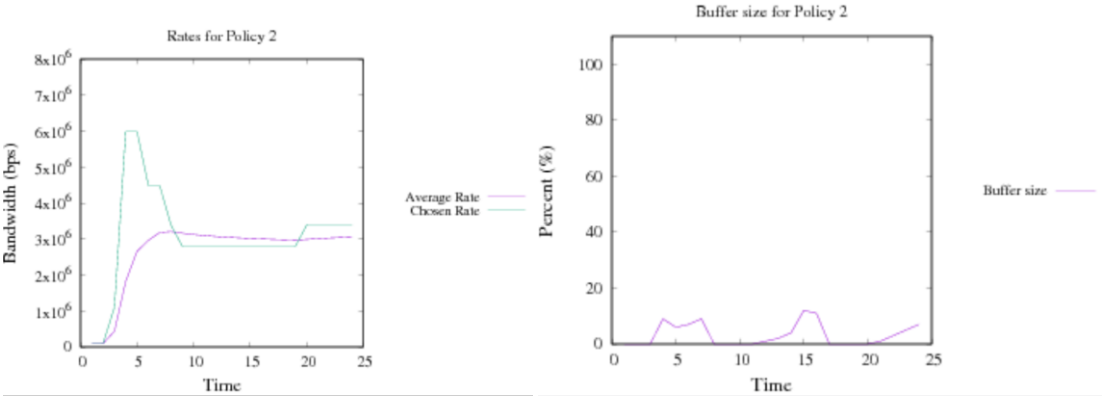
Policy #2 with max rate 4



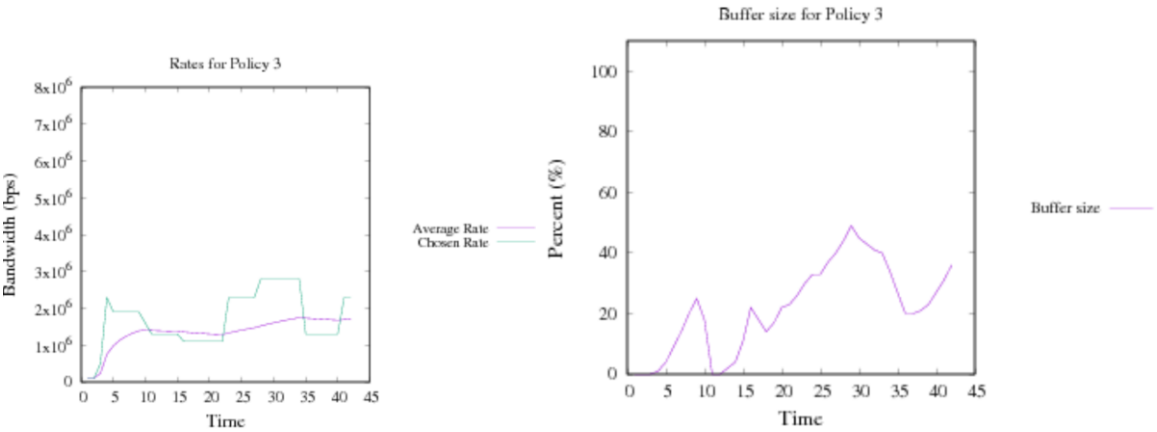
Policy #2 with max rate 5



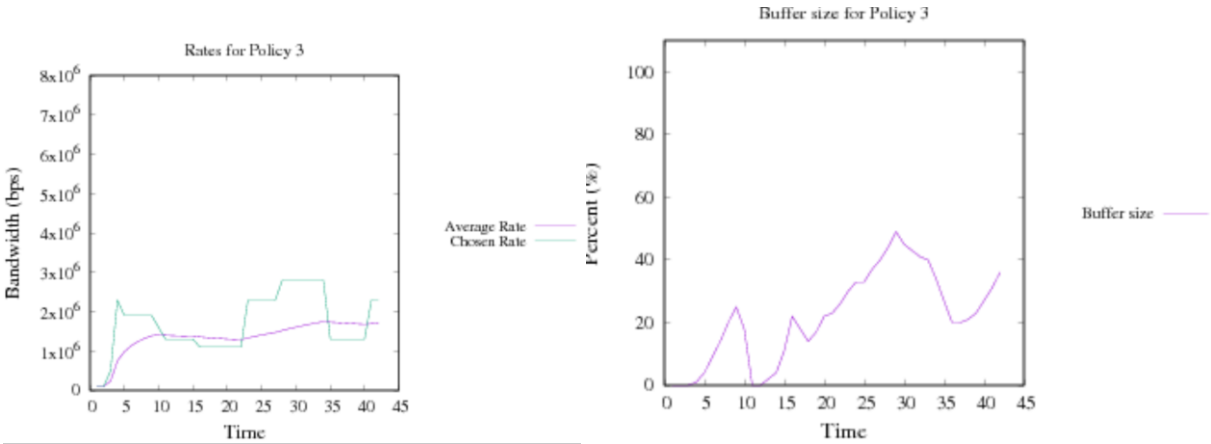
Policy #2 with max rate 6



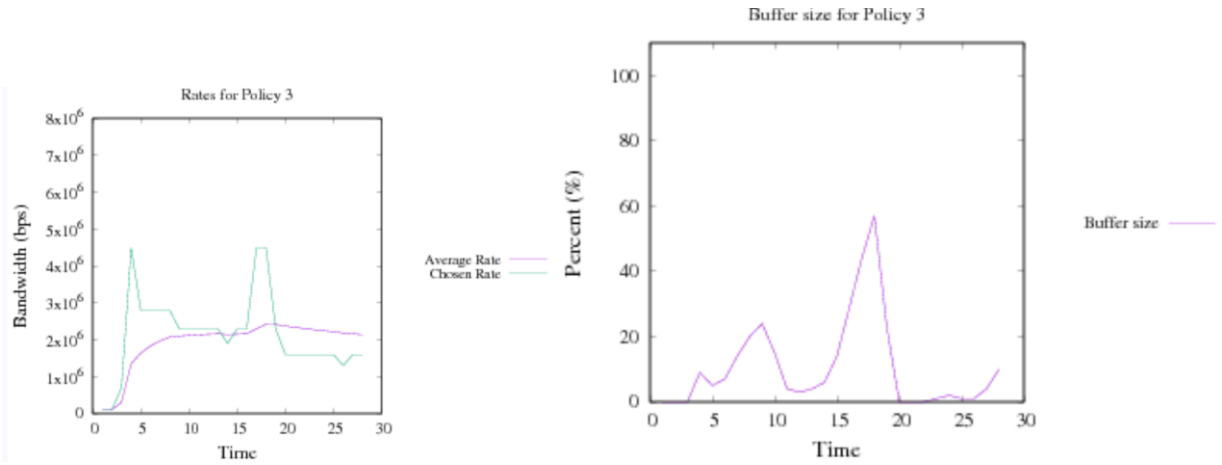
Policy #3 with max rate 4



Policy #3 with max rate 5



Policy #3 with max rate 6



3) the first policy shows many inconsistencies in video quality. But it is very good at preventing freezes. The second policy show high average video great, and the videos are smooth, but it has too many freezes. The third policy is like a combination of the two. It has reasonable video qualities and subtle transition rate while only freezing once for a small duration.