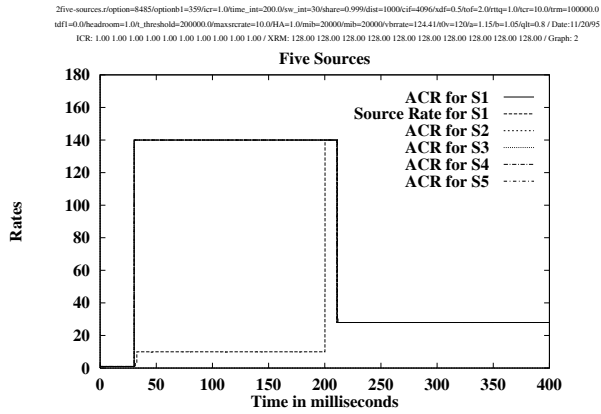
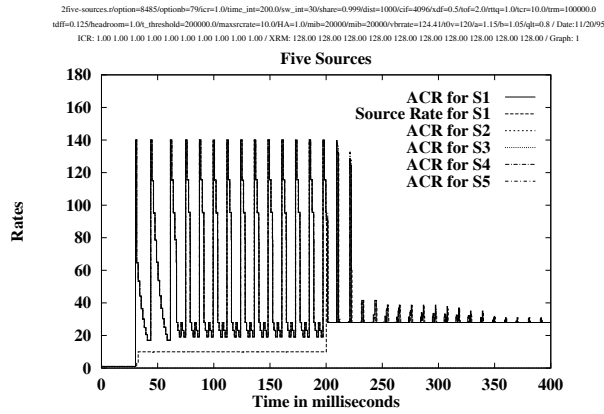


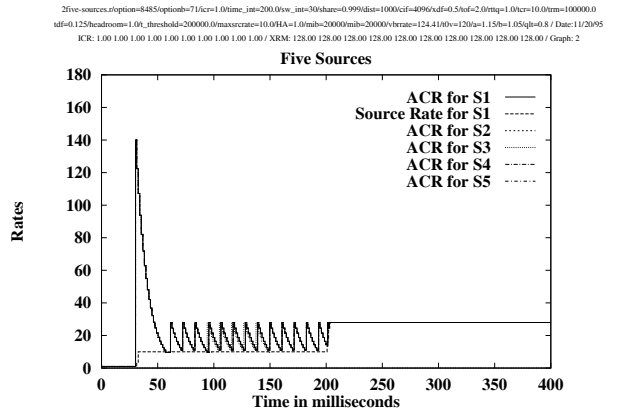
Figure 1: Five Source Configuration, Rates, High ICR=155.52Mbps, Headroom=1Mbps, MaxSrcRate=10Mbps for 200ms



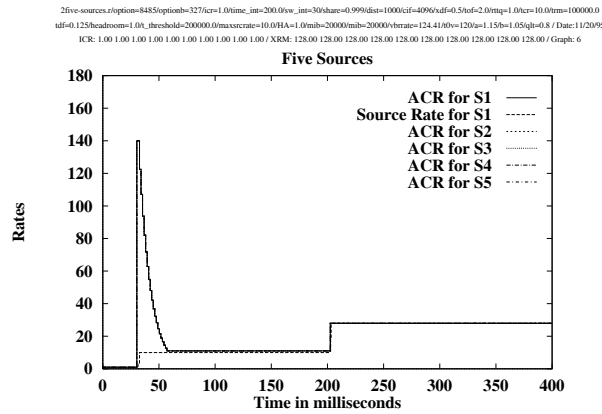
(a) No Rule 5



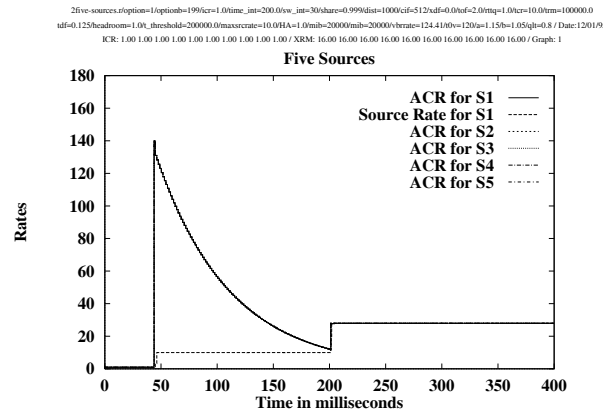
(b) Baseline Rule 5



(c) Oct Rule 5



(d) New Rule 5



(e) af-tm1614 Rule 5

Figure 3: Five Source Configuration,Rates,Low ICR=1.0Mbps,Headroom=1Mbps,MaxSrcRate=10Mbps for 200ms

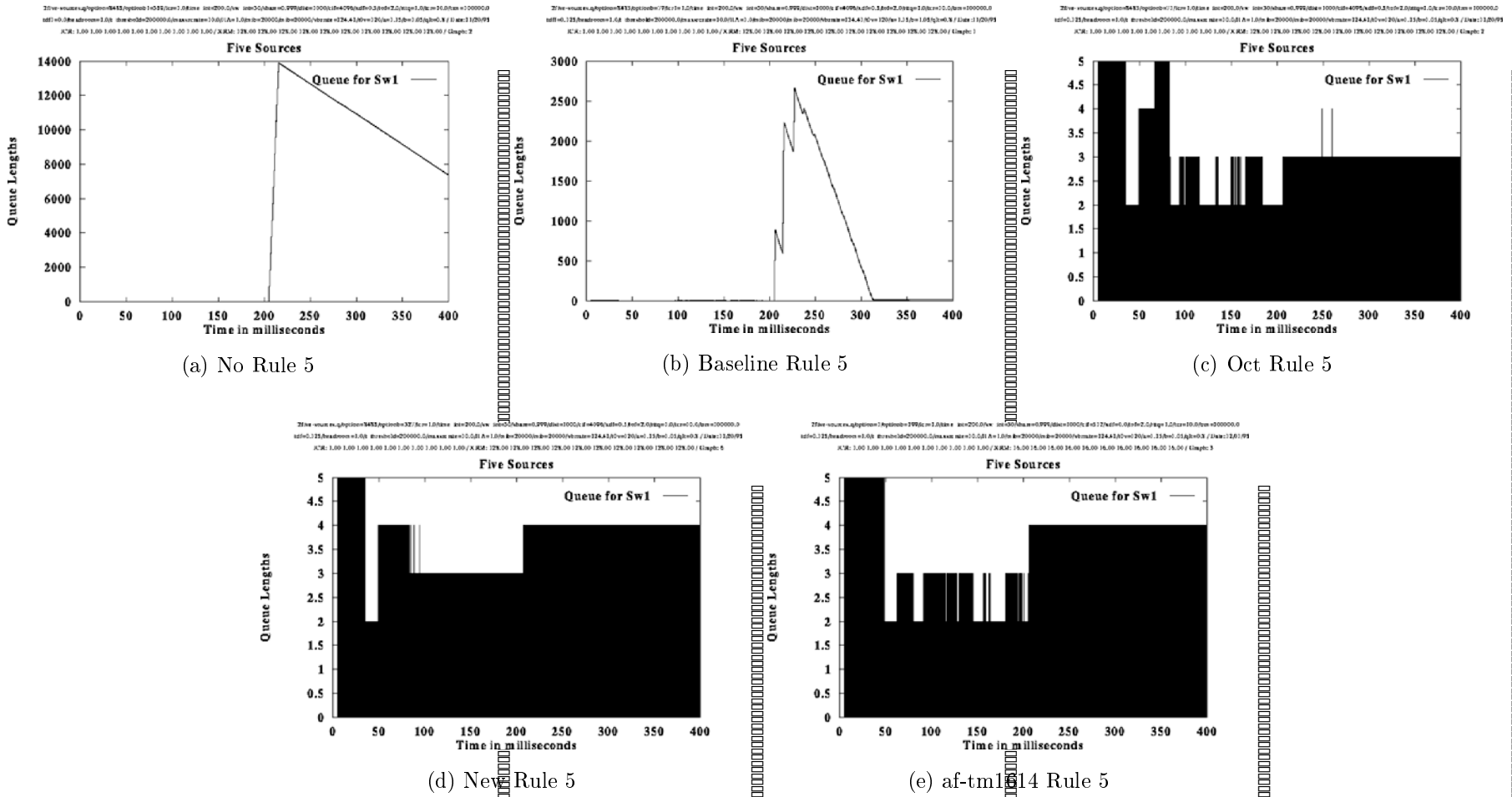
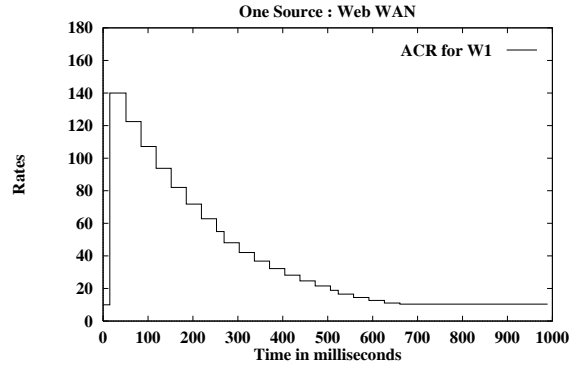


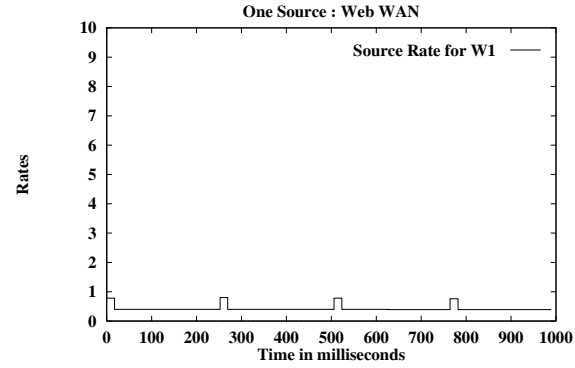
Figure 4: Five Source Configuration, Queues, Low ICR=1.0Mbps, Headroom=1Mbps, MaxSrcRate=10Mbps for 200ms

web-inf.aa.s.option=1/optionb1=263/cr=10.0/time_int=200.0/sw_int=30/share=0.999/dia=500/req_sz=16/ct=1000.0/cif=512/xdf=0.0/hof=2.0
 mq=1.0/cr=10.0/trm=10000.0/df=0.125/mib=20000/mib=20000/brate=124.4160/ov=1.20/a=1.15/b=1.05/qh=0.8/HA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 16.00 / Graph: 1



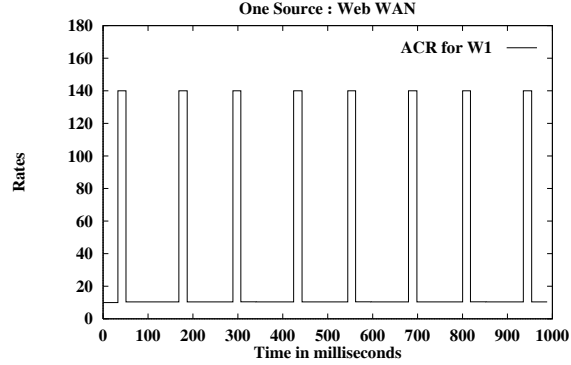
(a) New Rule 5 : ACR

web-inf.aa.s.option=1/optionb1=263/cr=10.0/time_int=200.0/sw_int=30/share=0.999/dia=500/req_sz=16/ct=1000.0/cif=512/xdf=0.0/hof=2.0
 mq=1.0/cr=10.0/trm=10000.0/df=0.125/mib=20000/mib=20000/brate=124.4160/ov=1.20/a=1.15/b=1.05/qh=0.8/HA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 16.00 / Graph: 1



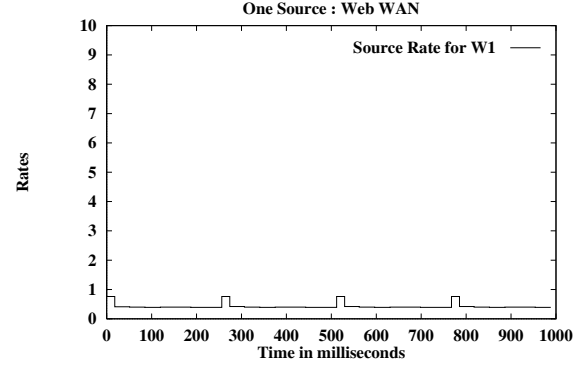
(b) New Rule 5 : Source Rates

web-inf.aa.s.option=1/optionb1=135/cr=10.0/time_int=200.0/sw_int=30/share=0.999/dia=500/req_sz=16/ct=1000.0/cif=512/xdf=0.0/hof=2.0
 mq=1.0/cr=10.0/trm=10000.0/df=0.125/mib=20000/mib=20000/brate=124.4160/ov=1.20/a=1.15/b=1.05/qh=0.8/HA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 16.00 / Graph: 4



(c) af-tm1614 Rule 5 : ACR

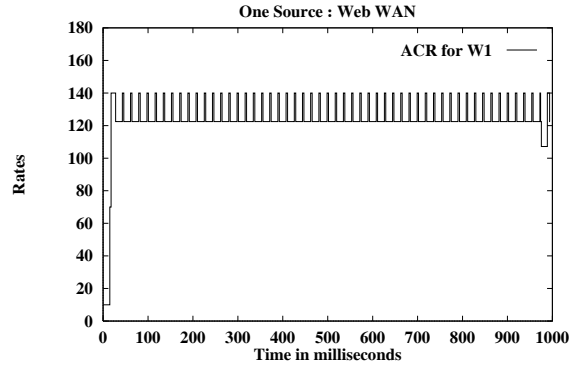
web-inf.aa.s.option=1/optionb1=135/cr=10.0/time_int=200.0/sw_int=30/share=0.999/dia=500/req_sz=16/ct=1000.0/cif=512/xdf=0.0/hof=2.0
 mq=1.0/cr=10.0/trm=10000.0/df=0.125/mib=20000/mib=20000/brate=124.4160/ov=1.20/a=1.15/b=1.05/qh=0.8/HA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 16.00 / Graph: 4



(d) af-tm1614 Rule 5 : Source Rates

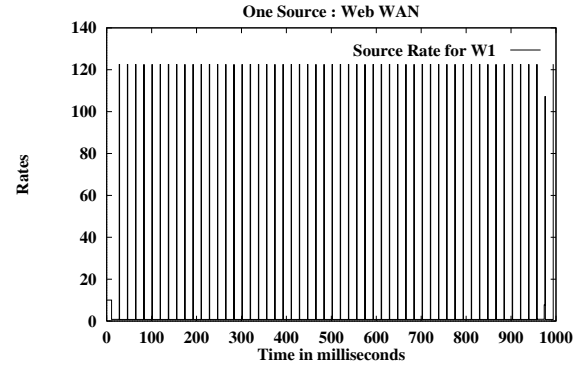
Figure 5: Small Bursts : One Bursty Source + Infinite Source Background

web-inf1aa.rtoption=10optionb1=263/cr=10.0time_int=200.0sw_int=30share=0.999/die=500resp_sz=16req_sz=256/cr=1000.0cif=512ndf=0.0ndf=2.0
mq=1.0/cr=10.0/rm=10000.0ndf=0.125mb=20000mb=20000/brate=124.4160/bw=120/a=1.15/b=1.05/qh=0.8HA=1.0 / Date: 120395
ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 2



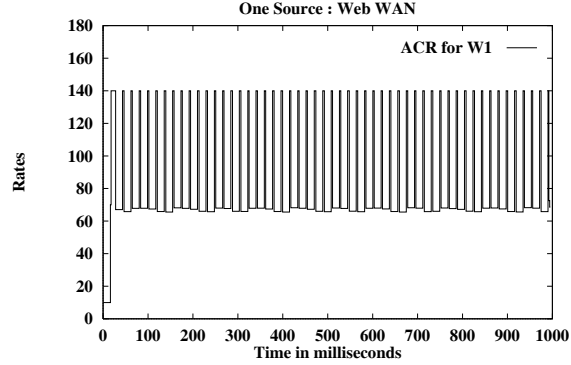
(a) New Rule 5 : ACR

web-inf1aa.rtoption=10optionb1=263/cr=10.0time_int=200.0sw_int=30share=0.999/die=500resp_sz=16req_sz=256/cr=1000.0cif=512ndf=0.0ndf=2.0
mq=1.0/cr=10.0/rm=10000.0ndf=0.125mb=20000mb=20000/brate=124.4160/bw=120/a=1.15/b=1.05/qh=0.8HA=1.0 / Date: 120395
ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 2



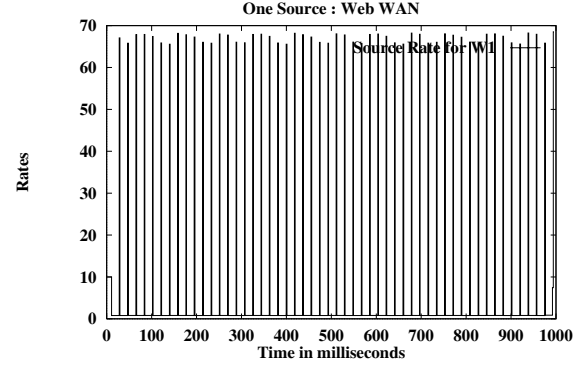
(b) New Rule 5 : Source Rates

web-inf1aa.rtoption=10optionb1=135/cr=10.0time_int=200.0sw_int=30share=0.999/die=500resp_sz=16req_sz=256/cr=1000.0cif=512ndf=0.0ndf=2.0
mq=1.0/cr=10.0/rm=10000.0ndf=0.125mb=20000mb=20000/brate=124.4160/bw=120/a=1.15/b=1.05/qh=0.8HA=1.0 / Date: 120395
ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 5



(c) af-tm1614 Rule 5 : ACR

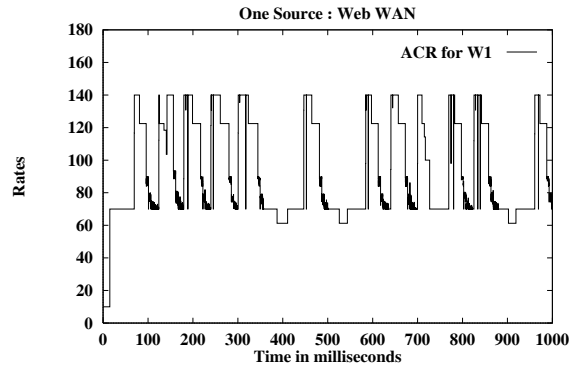
web-inf1aa.rtoption=10optionb1=135/cr=10.0time_int=200.0sw_int=30share=0.999/die=500resp_sz=16req_sz=256/cr=1000.0cif=512ndf=0.0ndf=2.0
mq=1.0/cr=10.0/rm=10000.0ndf=0.125mb=20000mb=20000/brate=124.4160/bw=120/a=1.15/b=1.05/qh=0.8HA=1.0 / Date: 120395
ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 5



(d) af-tm1614 Rule 5 : Source Rates

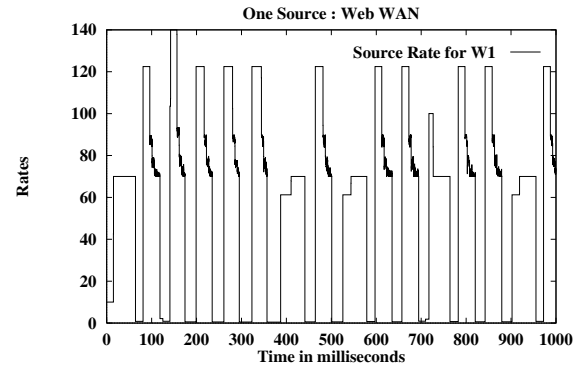
Figure 6: Medium Bursts : One Bursty Source + Infinite Source Background

web-inf.aa.s.option=1?optionb1=205/cr=10.0/time_int=200.0/w_int=30/share=0.999/dist=500/req_sz=16/req_sz=8192/cr=1000.0/cf=512/adf=0.0/of=2.0
 mq=1.0/cr=10.0/trm=10000.0/adf=0.125/mib=20000/mib=20000/brates=124.416/ov=120/a=1.15/b=1.05/qbt=0.8/HAA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 3



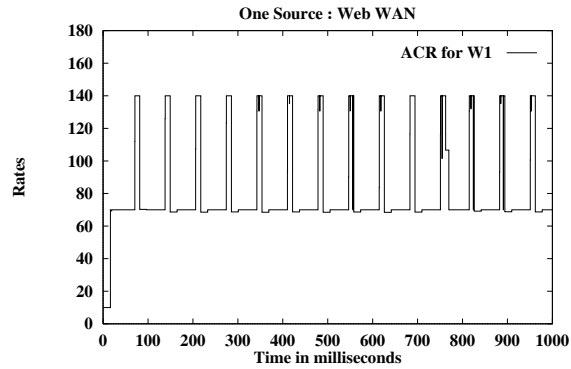
(a) New Rule 5 : ACR

web-inf.aa.s.option=1?optionb1=205/cr=10.0/time_int=200.0/w_int=30/share=0.999/dist=500/req_sz=16/req_sz=8192/cr=1000.0/cf=512/adf=0.0/of=2.0
 mq=1.0/cr=10.0/trm=10000.0/adf=0.125/mib=20000/mib=20000/brates=124.416/ov=120/a=1.15/b=1.05/qbt=0.8/HAA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 3



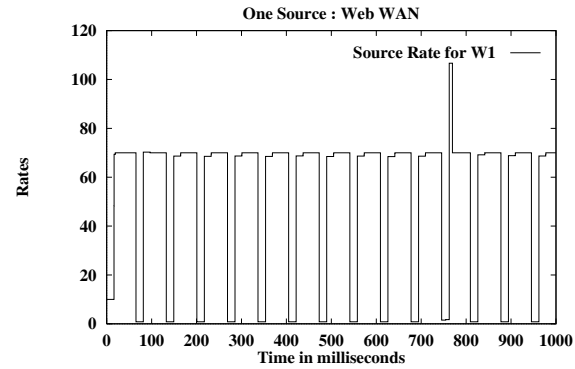
(b) New Rule 5 : Source Rates

web-inf.aa.s.option=1?optionb1=135/cr=10.0/time_int=200.0/w_int=30/share=0.999/dist=500/req_sz=16/req_sz=8192/cr=1000.0/cf=512/adf=0.0/of=2.0
 mq=1.0/cr=10.0/trm=10000.0/adf=0.125/mib=20000/mib=20000/brates=124.416/ov=120/a=1.15/b=1.05/qbt=0.8/HAA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 6



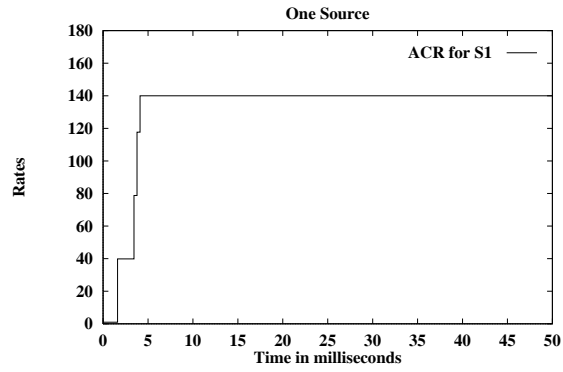
(c) af-tm1614 Rule 5 : ACR

web-inf.aa.s.option=1?optionb1=135/cr=10.0/time_int=200.0/w_int=30/share=0.999/dist=500/req_sz=16/req_sz=8192/cr=1000.0/cf=512/adf=0.0/of=2.0
 mq=1.0/cr=10.0/trm=10000.0/adf=0.125/mib=20000/mib=20000/brates=124.416/ov=120/a=1.15/b=1.05/qbt=0.8/HAA=1.0 / Date: 120395
 ICR: 10.00 10.00 10.00 / XRM: 16.00 16.00 16.00 / Graph: 6

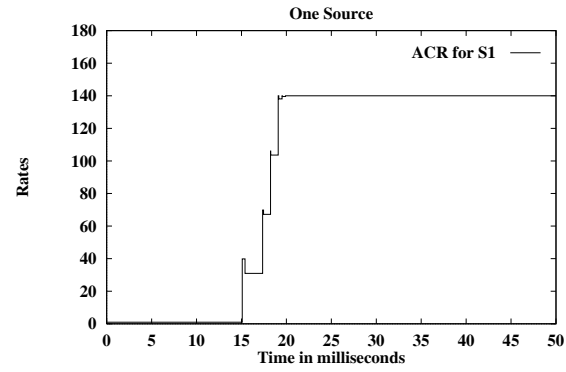


(d) af-tm1614 Rule 5 : Source Rates

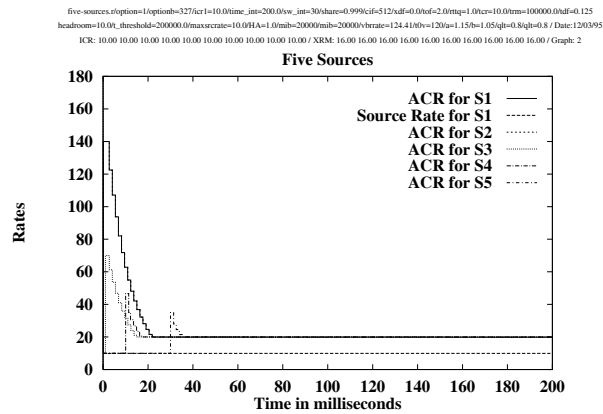
Figure 7: Large Bursts : One Bursty Source + Infinite Source Background



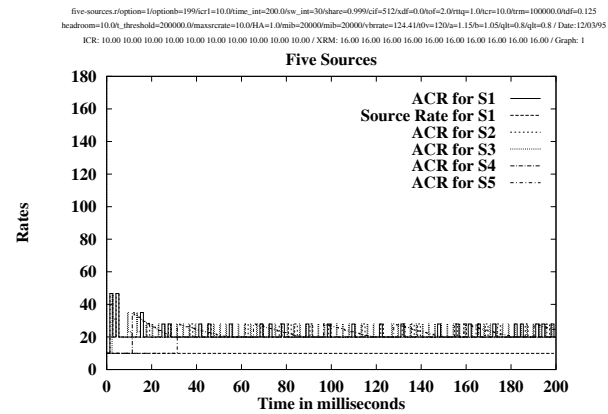
(a) New Rule 5 : One Source, Normal Rise Case



(b) af-tm1614 Rule 5 : One Source, Normal Rise Case



(c) New Rule 5 : Five Sources, Different RTTs



(d) af-tm1614 Rule 5 : Five Sources, Different RTTs

Figure 8: Normal Rise and configuration with different FRTTs