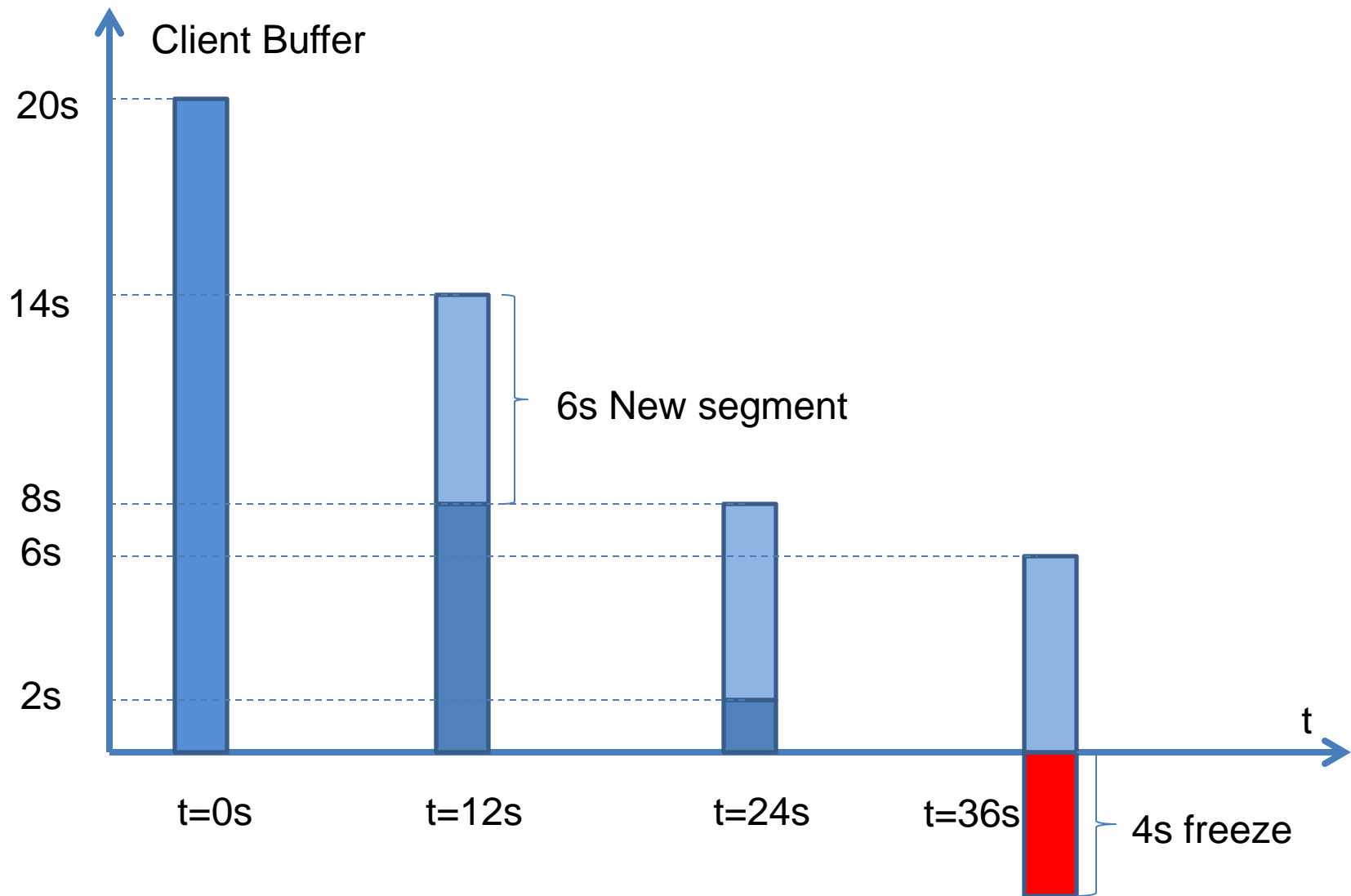


Client Buffer



T=0 second

20 sec



Client
buffer

A. Buffer = 20 sec

T=12 second, received **s1**

8 sec

6 sec



Client
buffer

B. Buffer = 14 sec

T=24 second, received **s2**

2 sec 6 sec



Client
buffer

C. Buffer = 8 sec

T=36 second, received **s3**

4 sec

6 sec



Client
buffer

D. Buffer = 6 sec, freeze = 4 sec

192.168.3.102 - - [03/Apr/2014:07:08:42 +0200] "GET /Big_Buck_Bunny/Big Buck Bunny.ism?Manifest HTTP/1.1" 200 58916

192.168.3.102 - - [03/Apr/2014:07:08:43 +0200] "GET /Big_Buck_Bunny/Big Buck Bunny.ism?QualityLevels(300000)&Fragments(video=0) HTTP/1.1" 200 73266

192.168.3.102 - - [03/Apr/2014:07:08:45 +0200] "GET /Big_Buck_Bunny/Big Buck Bunny.ism?QualityLevels(300000)&Fragments(video=20000000) HTTP/1.1" 200 67896

192.168.3.102 - - [03/Apr/2014:07:08:46 +0200] "GET /Big_Buck_Bunny/Big Buck Bunny.ism?QualityLevels(300000)&Fragments(video=40000000) HTTP/1.1" 200 83951

192.168.3.102 - - [03/Apr/2014:07:08:48 +0200] "GET /Big_Buck_Bunny/Big Buck Bunny.ism?QualityLevels(300000)&Fragments(video=60000000) HTTP/1.1" 200 80568

...

Server log

[SmoothStream-heuristic] received 58916 bytes
[2014/4/3 6:8:32 heuristic] request segment [1/0] at time 0

/QualityLevels(300000)/Fragments(video= 0)
[SmoothStream-heuristic] perceived BW = 666.055 Kbps

[heuristic] new ql = 1 buffer = 2 tot-freezetime = 0.885
/QualityLevels(300000)/Fragments(video= 20000000)
[SmoothStream-heuristic] perceived BW = 416.221 Kbps

[heuristic] new ql = 1 buffer = 2.684 tot-freezetime = 0.885
/QualityLevels(300000)/Fragments(video= 40000000)
[SmoothStream-heuristic] perceived BW = 444.774 Kbps

[heuristic] new ql = 1 buffer = 3.162 tot-freezetime = 0.885
/QualityLevels(300000)/Fragments(video= 60000000)
[SmoothStream-heuristic] perceived BW = 376.266 Kbps

[heuristic] new ql = 1 buffer = 3.437 tot-freezetime = 0.885
/QualityLevels(300000)/Fragments(video= 80000000)
[SmoothStream-heuristic] perceived BW = 359.053 Kbps

...

Client log

Converge of segment length estimation

