

# Wowza Transcoder performance benchmark

All tests were conducted in compliance with the guidelines for capturing transcoder performance benchmark numbers as described in the article as available on the date that this document was published.

https://www.wowza.com/docs/how-to-capture-wowza-transcoder-benchmark-statistics

A separate server was set up within the same AWS VPC with the LoopUntilLive module that played Big Buck Bunny 720p @ 5.6 Mbps. Stream Targets pushed gradually more streams to the test server over the VPC internal network.

http://download.blender.org/peach/bigbuckbunny\_movies/big\_buck\_bunny\_720p\_h264.mov

### **Test Servers**

Server 1

- EC2 instance: g3s.xlarge
- **Cores/Threads:** 4 virtual cores with 2 EC2 Compute Units each
- Memory: 30.5 GB
- vCPU: 4 (Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz)
- **OS:** Amazon Linux
- Java: 1.8.0\_77
- **GPU/Acceleration:** 1 x NVIDIA Tesla M60 (8GB)
- Wowza Streaming Engine Version: 4.7.7 (build 20181108145350)

### Input

#### Transrate 720p

- Video Codec: H.264
- Video Frame Size: 1280x720
- Video Frame Rate: 24 fps
- Video Bitrate: 5.588 Mbps
- Audio Codec: AAC
- Audio Sample Rate: 48 kHz
- Audio Channels: Stereo
- Audio Bitrate: 97 kbps

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## Results

### Transrate 720p

Input	Output	Server 1 CPU % Avg
1 x 720p @ 5.6 Mbps	1 x 720p @ 1.3 Mbps 1 x 360p @ 850Kbps 1 x 240p @ 350Kbps 1 x 160p @ 200Kpbs	12.63%
2 x 720p @ 5.6 Mbps	2 x (same as above)	21.36%
3 x 720p @ 5.6 Mbps	3 x (same as above)	28.34%
4 x 720p @ 5.6 Mbps	4 x (same as above)	39.99%
5 x 720p @ 5.6 Mbps	5 x (same as above)	48.27%
6 x 720p @ 5.6 Mbps	6 x (same as above)	60.77%
7 x 720p @ 5.6 Mbps	7 x (same as above)	70.82%