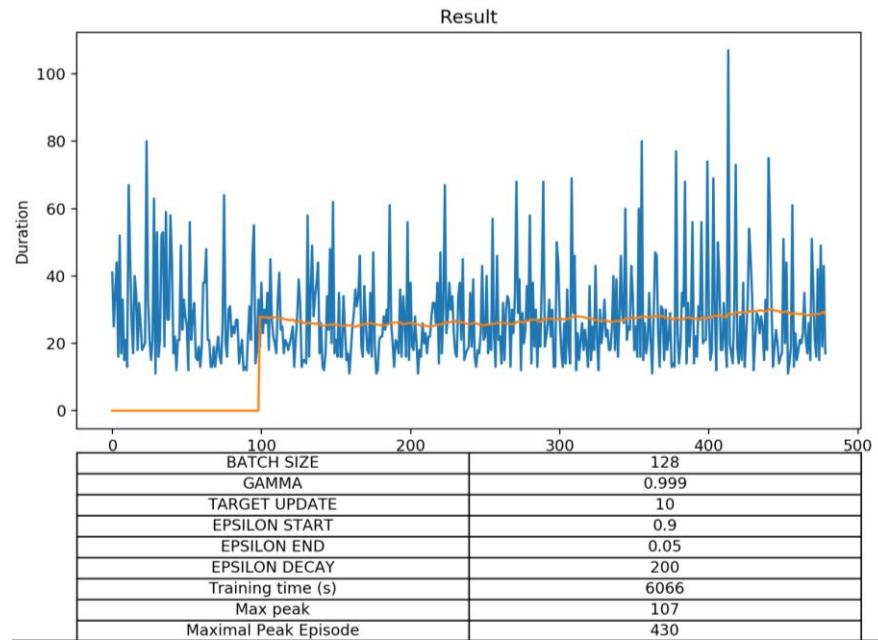


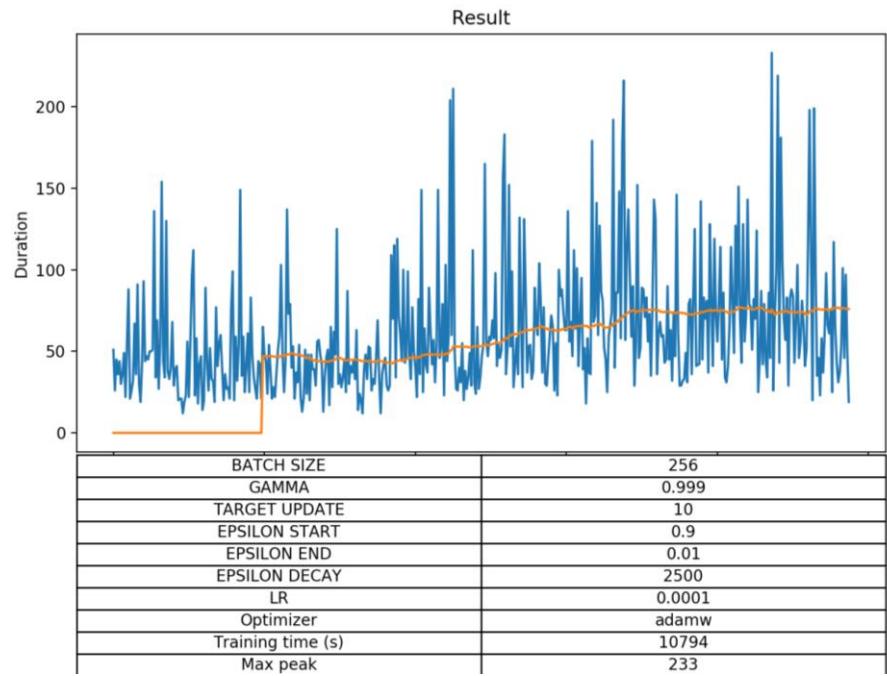
Various network architectures and parameters for DRL simulation

Group K: Fioritto Alessandro, Pilutti Filippo, Simonetti Samuele

The base architecture with no changes in the parameters, as shown in the lecture

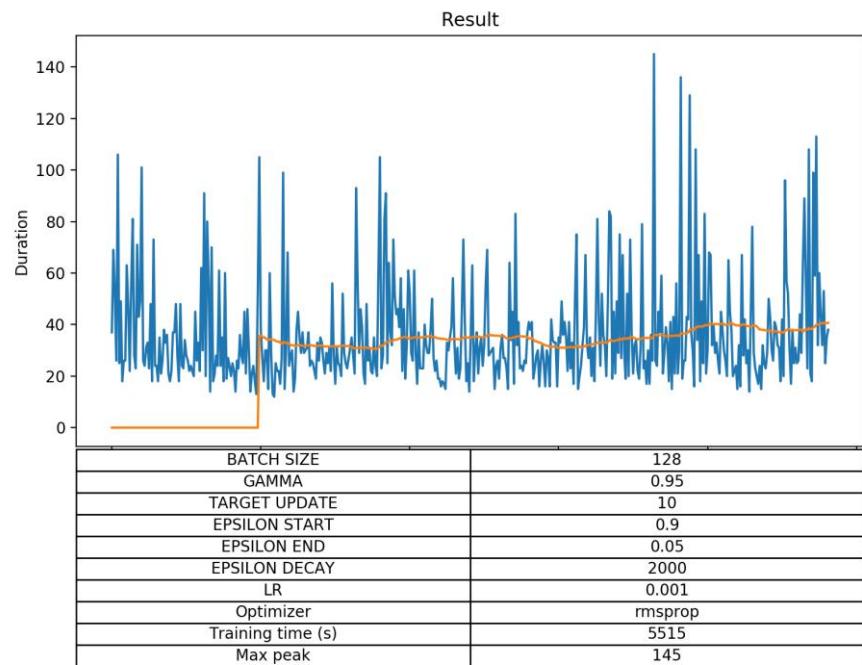


Four Hidden layers architecture



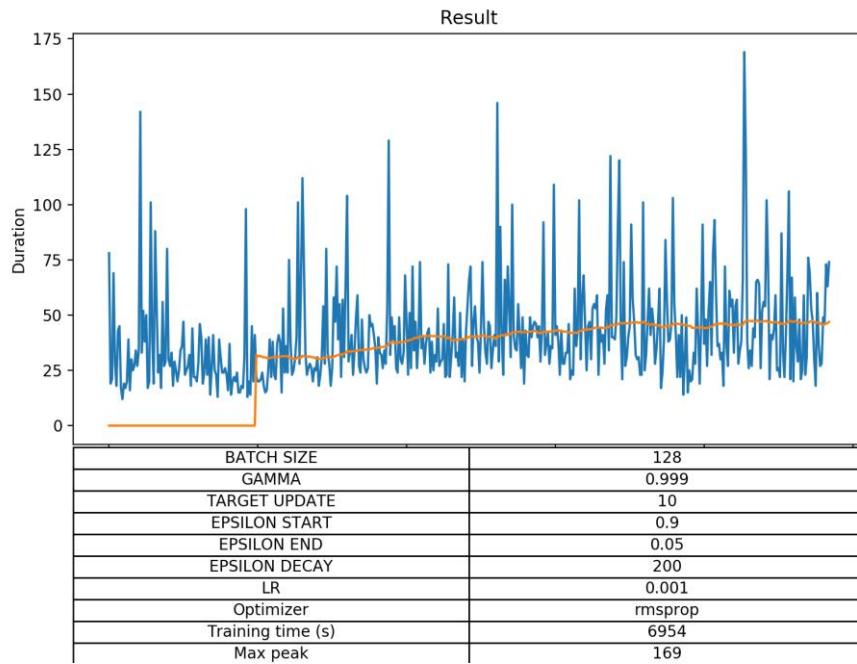
We modified the architecture adding a hidden layer, the batch size, the optimizer, the EPSILON END and the EPSILON DECAY and, even if we had a far larger training time, we had a far better mean of duration. Even if the peak is lower, this seems like a better result than the previous one.

Wide but Shallow architecture with slightly lesser GAMMA value and 10 times the EPSILON DECAY



We tried an architecture composed of two fully connected layers with 512 nodes. With a slightly faster training speed the results are not that far from the base models seen during the lecture.

Residual architecture



We tried to use residual blocks with skip connections to help the model preserve the input information.

We also tried to train for 2000 episodes obtaining better results

