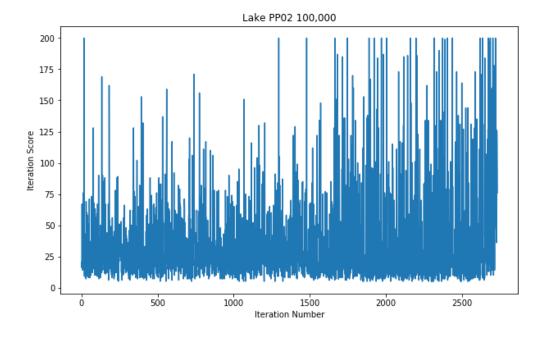
```
In [14]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
```

```
In [69]: # LAKE PP02 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_pp02_100000.csv")
lake_pp02_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

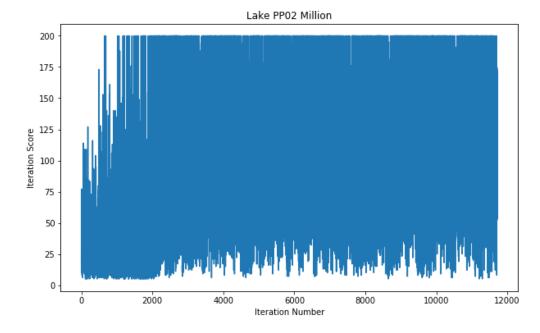
#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x_h = pd.to_numeric(lake_pp02_100000_df.index.values)
pp02_hy = pd.to_numeric(lake_pp02_100000_df.l.values)
ax.set_title("Lake PP02 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x_h , pp02_hy);
```



```
In [70]: # LAKE PP02 MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_pp02_million.csv")
    lake_pp02_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_dat
    a.iloc[1:,].as_matrix())

#PLOTTING
    fig, ax = plt.subplots(1,1, figsize=(10,6))
    x_m = pd.to_numeric(lake_pp02_million_df.index.values)
    pp02_my = pd.to_numeric(lake_pp02_million_df.l.values)
    ax.set_title("Lake PP02 Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x_m , pp02_my);
```

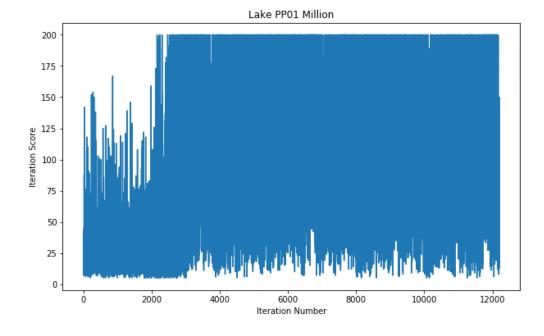
after removing the cwd from sys.path.



```
In [72]: # LAKE PP01 MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_pp01_million.csv")
    lake_pp01_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_dat
    a.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lake_pp01_million_df.index.values)
    pp01_my = pd.to_numeric(lake_pp01_million_df.l.values)
    ax.set_title("Lake PP01 Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x , pp01_my);
```

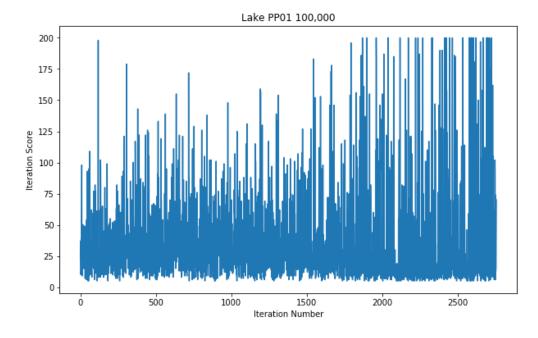
after removing the cwd from sys.path.



```
In [73]: # LAKE PP01 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_pp01_100000.csv")
lake_pp01_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_pp01_100000_df.index.values)
pp01_hy = pd.to_numeric(lake_pp01_100000_df.l.values)
ax.set_title("Lake PP01 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x , pp01_hy);
```

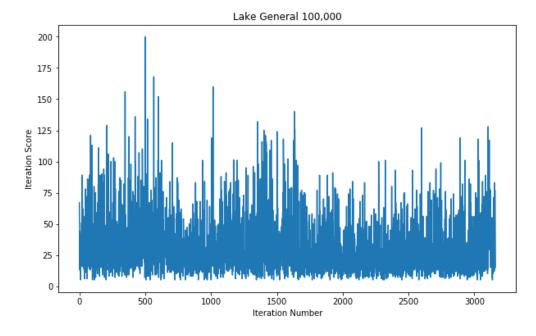
after removing the cwd from sys.path.



```
In [74]: # LAKE GENERAL 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_general_100000.csv")
lake_general_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_d
ata.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_general_100000_df.index.values)
general_hy = pd.to_numeric(lake_general_100000_df.l.values)
ax.set_title("Lake General 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x , general_hy);
```

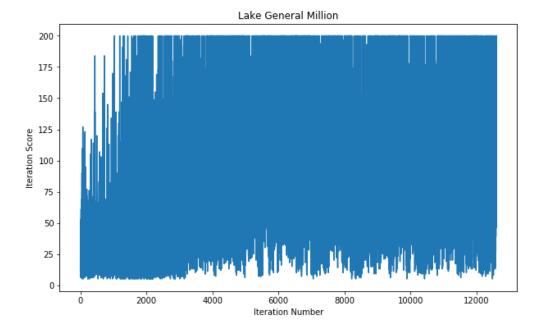
after removing the cwd from sys.path.



```
In [76]: # LAKE GENERAL Million
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_general_million.csv")
    lake_general_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_general_million_df.index.values)
general_my = pd.to_numeric(lake_general_million_df.l.values)
ax.set_title("Lake General Million")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x , general_my);
```

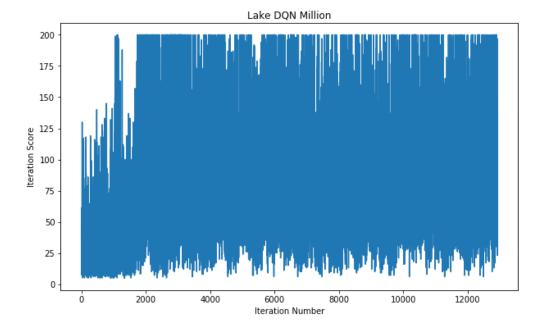
after removing the cwd from sys.path.



```
In [50]: # LAKE DQN Million
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_dqn_million.csv")
    lake_dqn_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data
    .iloc[1:,].as_matrix())

#PLOTTING
    fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lake_dqn_million_df.index.values)
    dqn_my = pd.to_numeric(lake_dqn_million_df.l.values)
    ax.set_title("Lake DQN Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x , dqn_my);
```

after removing the cwd from sys.path.

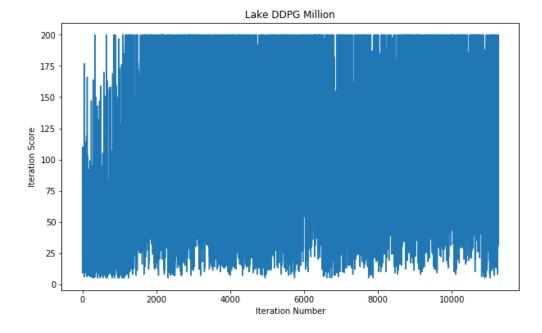


```
In [52]: # LAKE DDPG Million
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_ddpg_million.csv")
lake_ddpg_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_dat
a.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_ddpg_million_df.index.values)
y = pd.to_numeric(lake_ddpg_million_df.l.values)
ax.set_title("Lake_DDPG_Million")
ax.set_xlabel("Iteration_Number")
ax.set_ylabel("Iteration_Score")
ax.plot(x, y);

# Moving average dangerous, maybe like k-nearest_neigbors_type of_thing
```

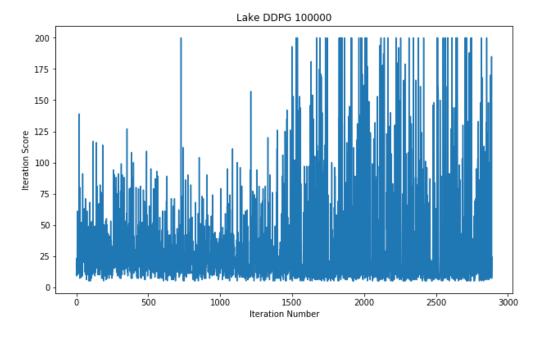
after removing the cwd from sys.path.



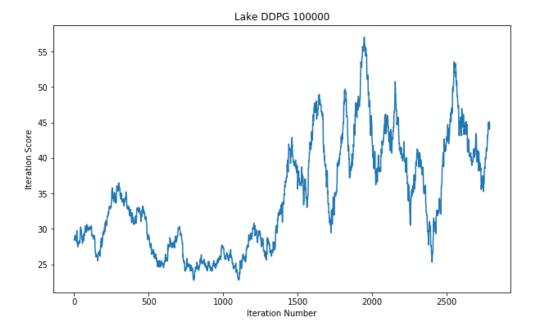
```
In [56]: # LAKE DDPG 100000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_ddpg_100000.csv")
lake_ddpg_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_ddpg_100000_df.index.values)
y = pd.to_numeric(lake_ddpg_100000_df.l.values)
ax.set_title("Lake DDPG_100000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

after removing the cwd from sys.path.



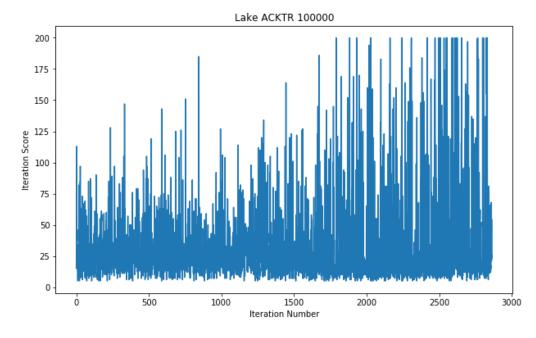
```
In [60]: k = 100
         y2 = []
         for i in range(len(y) - k):
             num = 0
             for j in range(k):
                 num += y[i+j]
             y2.append(num/k)
         # LAKE DDPG 100000
         # Read in File as pandas dataframe
         file data = pd.read csv("lake/lake ddpg 100000.csv")
         lake_ddpg_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data
         .iloc[1:,].as matrix())
         #PLOTTING
         fig, ax = plt.subplots(1,1, figsize=(10,6))
         x2 = pd.to_numeric(lake_ddpg_100000_df.iloc[:-k].index.values)
         #y = pd.to_numeric(lake_ddpg_100000_df.l.values)
         ax.set_title("Lake DDPG 100000")
         ax.set_xlabel("Iteration Number")
         ax.set_ylabel("Iteration Score")
         ax.plot(x2, y2);
```



```
In [61]: # LAKE ACKTR 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_acktr_100000.csv")
lake_acktr_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_acktr_100000_df.index.values)
y = pd.to_numeric(lake_acktr_100000_df.l.values)
ax.set_title("Lake ACKTR 100000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

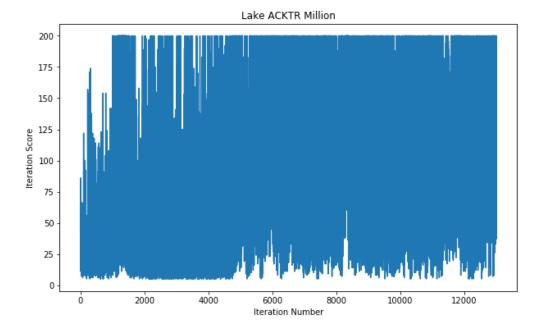
after removing the cwd from sys.path.



```
In [62]: # LAKE ACKTR MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_acktr_million.csv")
    lake_acktr_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_da
    ta.iloc[1:,].as_matrix())

#PLOTTING
    fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lake_acktr_million_df.index.values)
    y = pd.to_numeric(lake_acktr_million_df.l.values)
    ax.set_title("Lake ACKTR Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x, y);
```

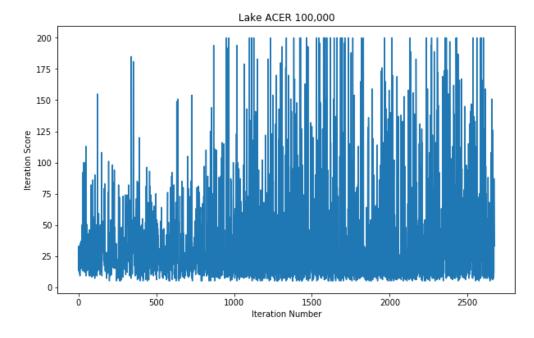
after removing the cwd from sys.path.



```
In [65]: # LAKE ACER 100000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_acer_100000.csv")
lake_acer_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_acer_100000_df.index.values)
y = pd.to_numeric(lake_acer_100000_df.l.values)
ax.set_title("Lake ACER 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

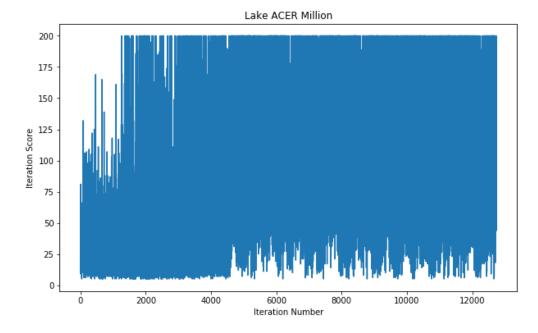
after removing the cwd from sys.path.



```
In [63]: # LAKE ACER MILLION
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_acer_million.csv")
lake_acer_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_dat
a.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_acer_million_df.index.values)
y = pd.to_numeric(lake_acer_million_df.l.values)
ax.set_title("Lake ACER Million")
ax.set_vlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

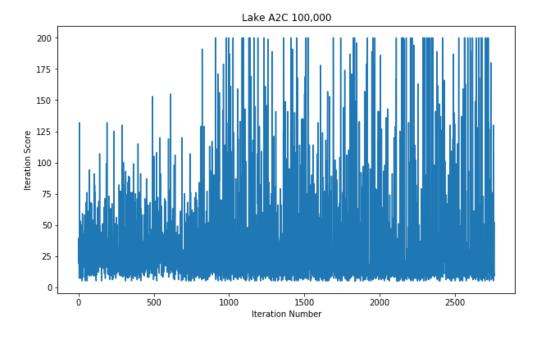
after removing the cwd from sys.path.



```
In [78]: # LAKE A2C 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_a2c_100000.csv")
lake_a2c_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_a2c_100000_df.index.values)
y = pd.to_numeric(lake_a2c_100000_df.l.values)
ax.set_title("Lake A2C 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

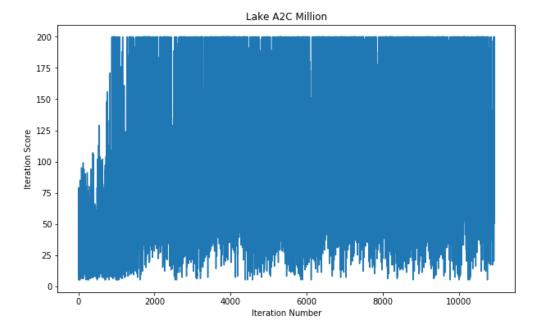
after removing the cwd from sys.path.



```
In [79]: # LAKE A2C MILLION
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_a2c_million.csv")
lake_a2c_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data
.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_a2c_million_df.index.values)
y = pd.to_numeric(lake_a2c_million_df.l.values)
ax.set_title("Lake A2C Million")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

after removing the cwd from sys.path.



In []: