

Acceleration depending on the number of threads of second task

May 20, 2022

```
[2]: import matplotlib.pyplot as plt

proc_cnt = range(1, 29)
SpeedUp = [0.954996, 1.874116, 1.853972, 2.665657, 3.455805, 3.529929, 5.
↪151045, 3.235224, 5.318697, 3.582116,
          4.269241, 4.771288, 6.610035, 2.635116, 7.567556, 7.044894, 5.091143,
↪2.993091, 4.855059, 8.334842,
          4.609439, 6.786364, 6.296721, 9.072127, 5.958874, 8.439214, 9.879834,
↪8.799753]

plt.figure(figsize=(15, 10))
plt.title("Acceleration depending on the number of threads", fontsize=16)
plt.xlabel("Number of processes", fontsize=20)
plt.ylabel("Speedup", fontsize=20)
plt.plot(proc_cnt, SpeedUp, '-o', label='SpeedUp')
plt.plot(proc_cnt, proc_cnt, '-o', label='Assumption')
plt.grid(True)
plt.legend(prop={ 'size' : 15 })
```

```
[2]: <matplotlib.legend.Legend at 0x7fa8a18224f0>
```

