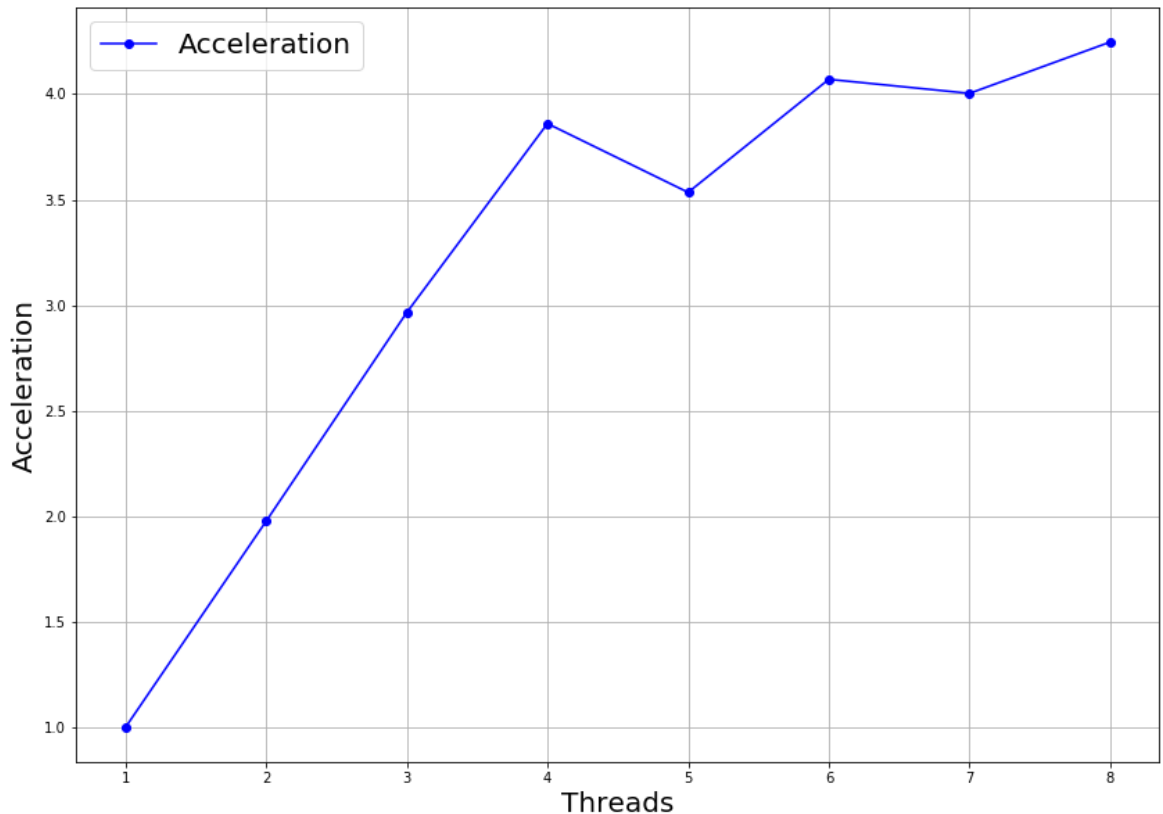


```
In [2]: import matplotlib.pyplot as plt
```

With pragma omp for (N = 200000000)

```
In [4]: df = pd.read_csv("./result.txt", header=None, sep=" ")
df.rename(columns={0: 'Threads', 1: 'Real time', 2: 'User time'}, inplace=True)
df['Acceleration'] = df['Real time'][0] / df['Real time']
print(df)
plt.figure(figsize=(14, 10))
plt.xlabel('Threads', fontsize=20)
plt.ylabel('Acceleration', fontsize=20)
plt.grid(True)
plt.title('', fontsize=20)
plt.plot(df['Threads'], df['Acceleration'], 'ob-', label='Acceleration')
plt.legend(fontsize=20, loc='best')
plt.savefig('Acceleration_pragma_for.jpg')
plt.show()
```

	Threads	Real time	User time	Acceleration
0	1	15.662	15.536	1.000000
1	2	7.923	15.488	1.976776
2	3	5.281	15.668	2.965726
3	4	4.057	15.913	3.860488
4	5	4.431	18.413	3.534642
5	6	3.848	20.398	4.070166
6	7	3.912	24.462	4.003579
7	8	3.688	28.643	4.246746



Without pragma for (N = 200000000)

```
In [5]: df = pd.read_csv("./result_without.txt", header=None, sep=" ")
df.rename(columns={0: 'Threads', 1: 'Real time', 2: 'User time'}, inplace=True)
df['Acceleration'] = df['Real time'][0] / df['Real time']
print(df)
plt.figure(figsize=(14, 10))
plt.xlabel('Threads', fontsize=20)
plt.ylabel('Acceleration', fontsize=20)
plt.grid(True)
plt.title('', fontsize=20)
plt.plot(df['Threads'], df['Acceleration'], 'ob-', label='Acceleration')
plt.legend(fontsize=20, loc='best')
plt.savefig('Acceleration_without_pragma_for.jpg')
```

	Threads	Real time	User time	Acceleration
0	1	15.629	15.628	1.000000
1	2	7.847	15.691	1.991717
2	3	5.357	15.918	2.917491
3	4	4.119	16.321	3.794368
4	5	4.570	18.786	3.419912
5	6	3.916	20.834	3.991062
6	7	4.067	26.014	3.842882
7	8	3.548	27.947	4.405017

