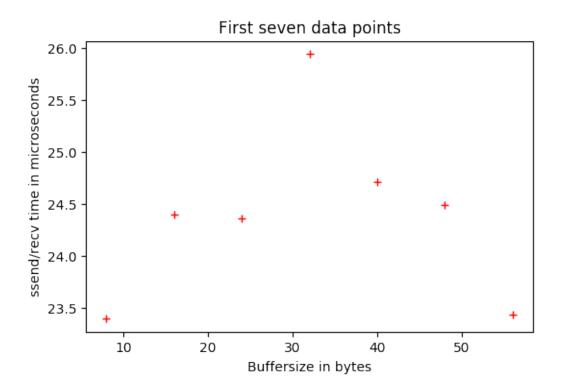
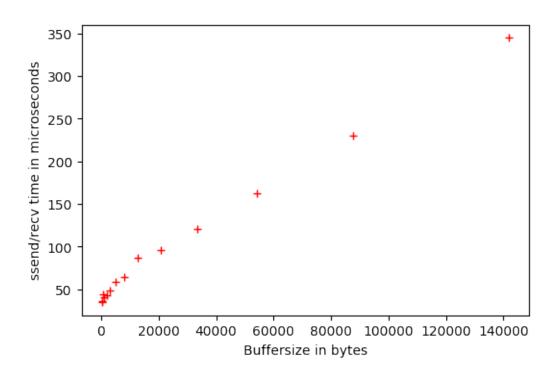
## data-visualization

June 5, 2018

Times are measured on grid and saved in csv format. First columns is the buffersize in bytes followed by the average of ssend/recv time. Send messages specifies how many times the ssend/recv roundtrips have been measured.

```
In [81]: !head data-t40-n1000-grid.csv
buffersize;t_average;send messages
8;3.68643e-06;1000
16;4.1635e-06;1000
24;2.64752e-06;1000
40;4.71246e-06;1000
64;3.13354e-06;1000
104;4.00949e-06;1000
168;3.96705e-06;1000
272;4.26745e-06;1000
440;4.34601e-06;1000
In [25]: df = pd.read_csv('data-t40-n100000-grid.csv', sep=';')
In [36]: data_head = df[:7]
        plt.figure(dpi=100)
         plt.title('First seven data points')
         plt.xlabel('Buffersize in bytes')
         plt.ylabel('ssend/recv time in microseconds')
         plt.plot(data_head.buffersize, [x * 10e6 for x in data_head.t_average], 'r+');
```





```
In [33]: df = pd.read_csv('data-lin-t200-n100000.csv', sep=';')
          plt.figure(dpi=100)
          plt.xlabel('Buffersize in bytes')
          plt.ylabel('ssend/recv time in microseconds')
          plt.plot(df.buffersize, [x * 10e6 for x in df.t_average], 'r+');
            38
         ssend/recv time in microseconds
            36
            34
            32
            30
            28
            26
            24
            22
                  0
                         200
                                 400
                                        600
                                                800
                                                       1000
                                                               1200
                                                                       1400
                                                                               1600
                                         Buffersize in bytes
```

