

A Script per collezionare i dati

```
for((s=100; s<15000; s+=100))
do
    echo -n $s >> dataset.dat
    sudo ping 192.168.1.XX -s $s -c 5 -i 0,05 | grep min
    | cut -d '=' -f2 | cut -d '/' -f1 >> dataset.dat
done
```

B Script configurazione 1

```
set xlabel "size L1 [byte]"
set ylabel "RTT [ms]"

set terminal png size 1024, 768

D(x)=(x+8)+(20+38)*(1+floor((x+8-1)/1480))

set output "RTTp.png"

plot 'rtt_min_h2.dat' using (D($1)):2 title "RTT powerline" with linespoint

set xlabel "size [byte]"
set ylabel "velocità [kbyte]"
set output "VTx.png"

plot 'rtt_min_h2.dat' using (D($1)):(($1<1472 ? (8*4*(D($1))/($2)) :
((8*2*(D($1))/($2)) + (8*2*(D(1538)/($2)))))
title "VTx H2 powerline" with linespoint
```

C Script configurazione 2

```
set xlabel "size L1 [byte]"
set ylabel "RTT [ms]"

set terminal png size 1024, 768

D(x)=(x+8)+(20+38)*(1+floor((x+8-1)/1480))

set output "RTTp.png"

plot 'rtt_min_h2.dat' using (D($1)):2 title "RTT powerline" with linespoint

set xlabel "size [byte]"
set ylabel "velocità [kbyte]"
set output "VTx.png"

plot 'rtt_min_h2.dat' using (D($1)):(8*2*(D($1))/($2))
title "VTx H2 powerline" with linespoint
```

D Script configurazione 3

```
set xlabel "size L1 [Byte]"
set ylabel "RTT [ms]"
```

```

set terminal png size 1024, 768

D(x)=(x+8)+(20+38)*(1+floor((x+8-1)/1480))

set output "RTTW.png"

plot 'rtt_min_wifi.dat' using (D($1)):2 title "RTT" with linespoint

set xlabel "size [Byte]"
set ylabel "velocità [KBit]"

set output "VTxW.png"

plot 'rtt_min_wifi.dat' using (D($1)):( D($1)<1500 ?
  (((2*8*10000000*D($1))/( (10000)*($2) - 2*8*D($1) ))*0.001) :
  (((2*8*10000000*1538)/( (10000)*($2) - 2*8*D($1) ))*0.001 ) )
  title "VTx" with linespoint

```

E Script configurazione 4

```

set xlabel "size L1 [byte]"
set ylabel "RTT [ms]"

set terminal png size 1024, 768

D(x)=(x+8)+(20+38)*(1+floor((x+8-1)/1480))

set output "RTTPow.png"

plot 'rtt_min_h2_con_powerline.dat' using (D($1)):2 title "RTT" with linespoint

set xlabel "size [byte]"
set ylabel "velocità [kbyte]"

set output "VTxPow.png"

plot 'rtt_min_h2_con_powerline.dat' using (D($1)):( D($1)<1500 ?
  (4*8*D($1)*10**7*10**8/( ($2)*10**4*10**8 - (2*8*10**8*D($1)) -
  (6*8*10**7*D($1)) ))*0.001 : (4*8*1538*10**7*10**8/( ($2)*10**4*10**8 -
  (2*8*10**8*D($1)) - (6*8*10**7*D($1)) ))*0.001 ) with linespoint

```