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Facultad de Ciencias Exactas y Naturales - UBA



Departamento de Computación,
Facultad de Ciencias Exactas y Naturales,
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Trabajo Práctico 2

Teoría de las Comunicaciones

Primer Cuatrimestre de 2014

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1. Introducción

En este trabajo estudiamos un método para detectar enlaces submarinos en la traza de paquetes entre dos hosts conectados a internet.

2. Desarrollo

Pendiente.

3. Resultados

3.1. University of Oxford

Statistics:

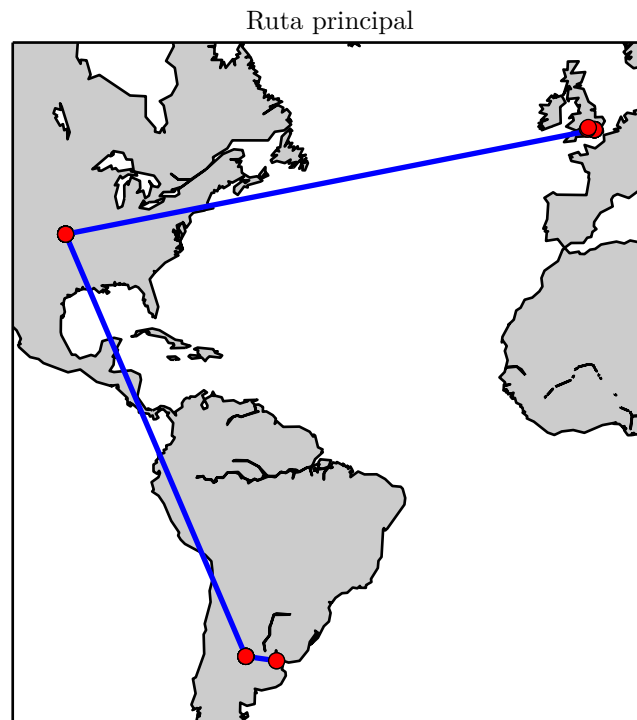
TTL	IP Addresses	Absolute RTT	Relative RTT	Relative ZRTT	Location
1	192.168.1.1	1.341 ms	1.341 ms	-0.100	*
2	190.194.57.1	97.959 ms	96.618 ms	1.038	Avellaneda, Argentina
5	200.89.166.105	69.578 ms	-28.381 ms	-0.454	Argentina
6	200.89.165.130	260.252 ms	190.673 ms	2.160	Argentina
9	200.89.164.213	19.609 ms	-240.643 ms	-2.988	Argentina
10	200.89.165.222	30.458 ms	10.849 ms	0.014	Argentina
11	208.178.244.125	27.414 ms	-3.044 ms	-0.152	United States
12	67.16.148.102	153.614 ms	126.200 ms	1.391	United States
14	4.69.138.123	255.519 ms	101.905 ms	1.101	United States
15	4.69.140.142	261.528 ms	6.008 ms	-0.044	United States
16	4.69.132.33	260.702 ms	-0.826 ms	-0.125	United States
17	4.69.148.106	257.138 ms	-3.564 ms	-0.158	United States
18	4.69.143.214	252.252 ms	-4.887 ms	-0.174	United States
19	4.69.201.69	256.242 ms	3.990 ms	-0.068	United States
20	4.69.137.65	257.602 ms	1.361 ms	-0.099	United States
21	4.69.143.89	262.043 ms	4.441 ms	-0.063	United States
22	4.69.133.101	400.029 ms	137.986 ms	1.532	United States
23	195.50.119.98	239.417 ms	-160.612 ms	-2.033	United Kingdom
24	146.97.33.41	271.383 ms	31.966 ms	0.266	London, United Kingdom
25	146.97.33.21	244.023 ms	-27.360 ms	-0.442	London, United Kingdom
26	146.97.37.206	237.909 ms	-6.113 ms	-0.188	London, United Kingdom
27	193.63.108.129	240.903 ms	2.994 ms	-0.080	United Kingdom
28	193.63.108.134	240.802 ms	-0.101 ms	-0.117	United Kingdom
29	193.63.109.110	251.087 ms	10.285 ms	0.007	Wantage, United Kingdom
30	192.76.21.11	241.947 ms	-9.140 ms	-0.225	Oxford, United Kingdom

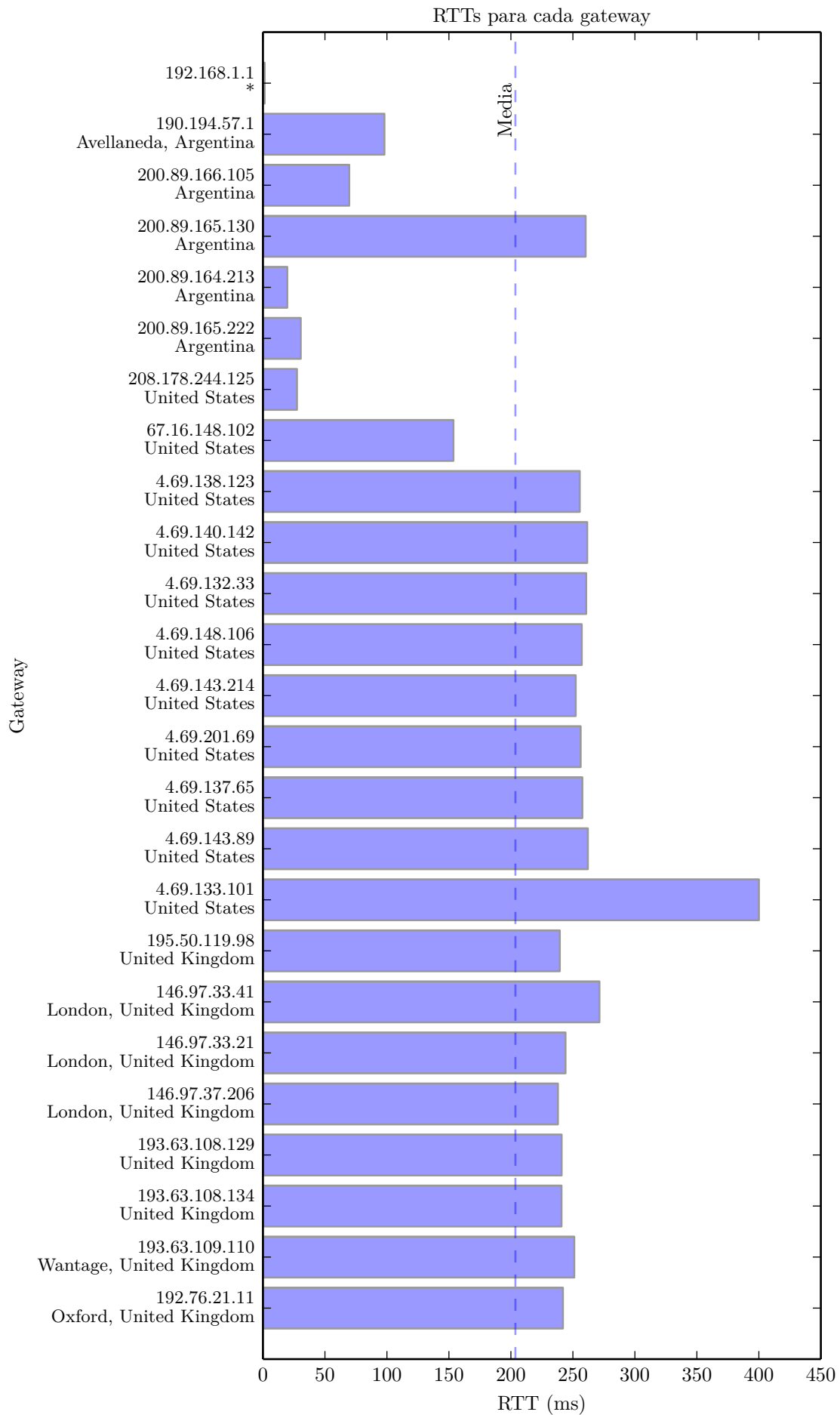
Absolute RTT mean: 203.630 ms

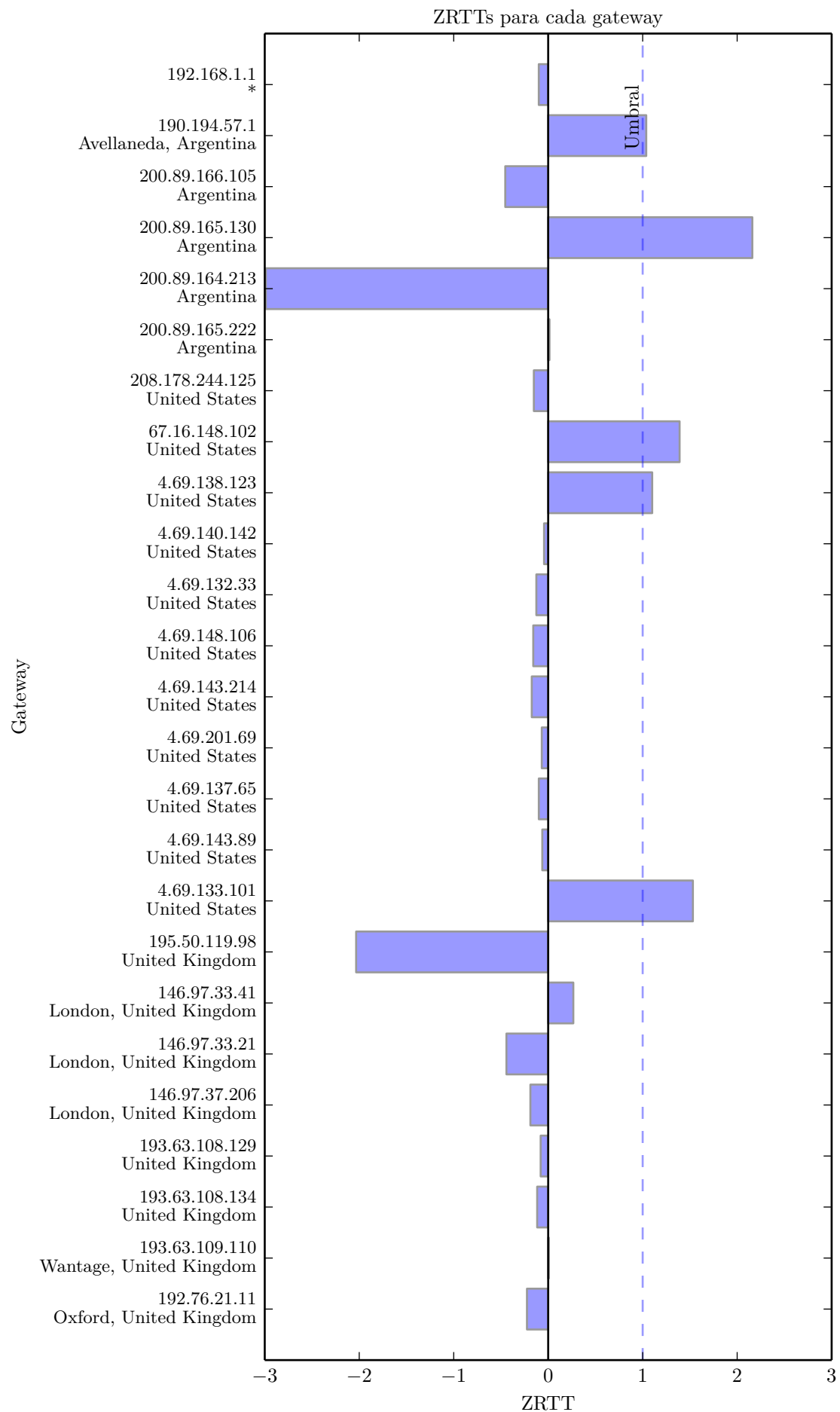
Absolute RTT std. deviation: 99.606 ms

Relative RTT mean: 9.678 ms

Relative RTT std. deviation: 83.775 ms







3.2. The University of Sydney

Statistics:

TTL	IP Addresses	Absolute RTT	Relative RTT	Relative ZRTT	Location
1	192.168.1.1	1.165 ms	1.165 ms	-0.256	*
3	190.194.57.1	167.355 ms	166.191 ms	2.305	Avellaneda, Argentina
5	200.89.165.157	35.586 ms	-131.770 ms	-2.319	Argentina
6	200.89.165.130	22.441 ms	-13.145 ms	-0.478	Argentina
9	200.89.164.217	28.177 ms	5.736 ms	-0.185	Argentina
10	200.89.165.222	21.571 ms	-6.606 ms	-0.377	Argentina
11	159.63.53.213	24.123 ms	2.552 ms	-0.234	United States
12	67.16.139.18	149.151 ms	125.028 ms	1.666	United States
13	129.250.9.117	203.216 ms	54.065 ms	0.565	Englewood, United States
14	129.250.3.172	177.313 ms	-25.903 ms	-0.676	Englewood, United States
15	129.250.3.174	178.372 ms	1.059 ms	-0.258	Englewood, United States
16	129.250.2.59	189.240 ms	10.867 ms	-0.105	Englewood, United States
17	129.250.4.25	213.865 ms	24.625 ms	0.108	Englewood, United States
18	129.250.5.57	266.864 ms	52.999 ms	0.548	Englewood, United States
19	129.250.4.118	232.886 ms	-33.978 ms	-0.801	Englewood, United States
20	140.174.28.138	361.311 ms	128.425 ms	1.719	Englewood, United States
21	202.158.194.176	352.218 ms	-9.093 ms	-0.415	Australia
22	113.197.15.57	355.732 ms	3.514 ms	-0.219	Australia
23	202.158.205.165	396.616 ms	40.884 ms	0.360	Australia
24	113.197.9.186	353.190 ms	-43.426 ms	-0.948	Lidcombe, Australia

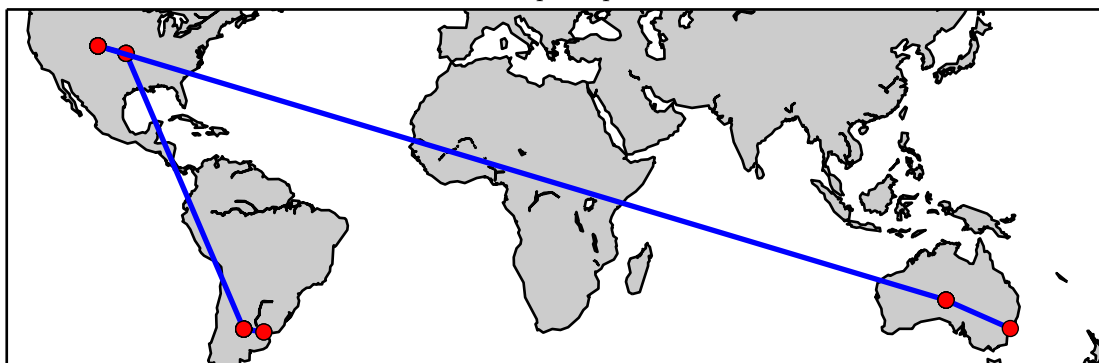
Absolute RTT mean: 186.520 ms

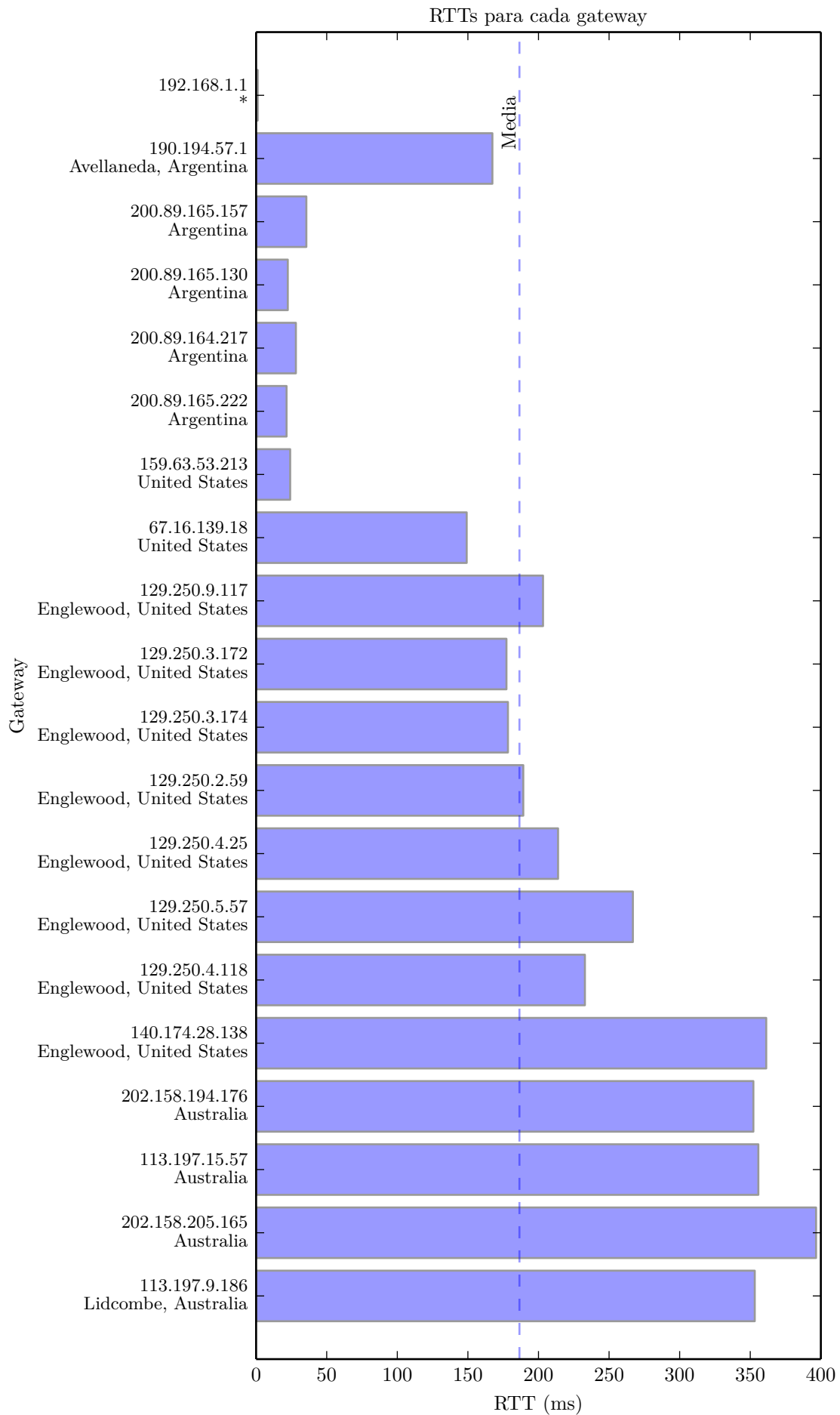
Absolute RTT std. deviation: 129.001 ms

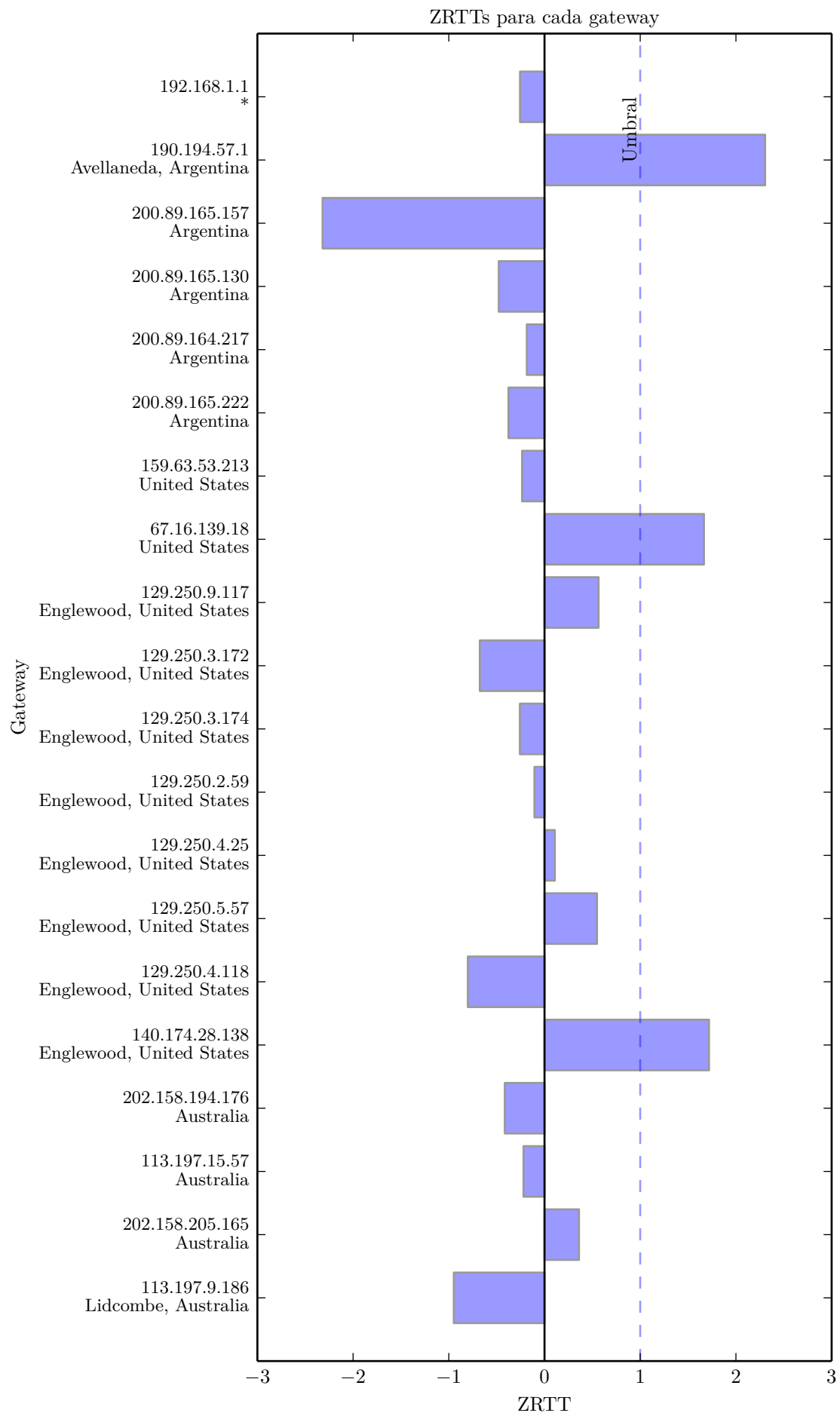
Relative RTT mean: 17.659 ms

Relative RTT std. deviation: 64.445 ms

Ruta principal







3.3. Malasya University of Science and Technology

Statistics:

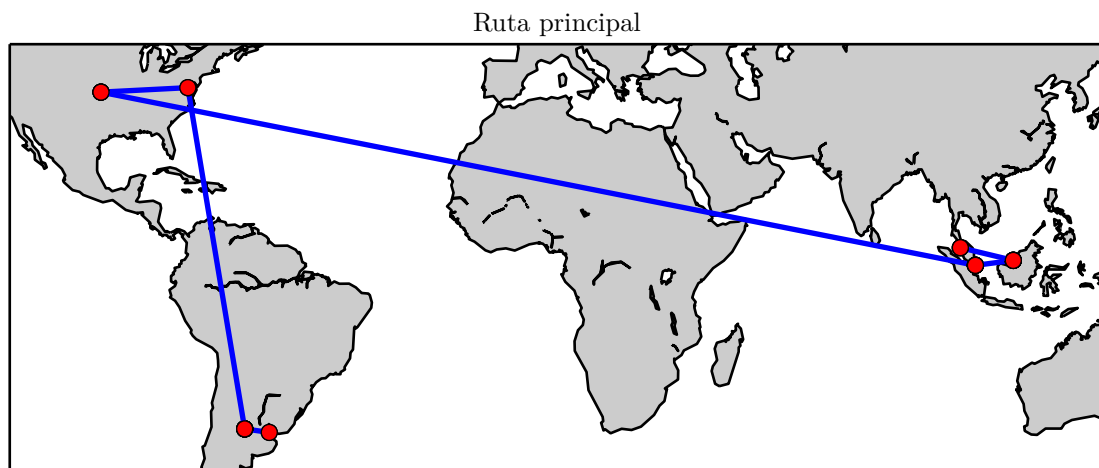
TTL	IP Addresses	Absolute RTT	Relative RTT	Relative ZRTT	Location
1	192.168.1.1	1.357 ms	1.357 ms	-0.058	*
2	190.194.57.1	894.656 ms	893.299 ms	3.008	Avellaneda, Argentina
5	200.89.164.77	21.863 ms	-872.793 ms	-3.063	Argentina
6	200.89.165.197	20.886 ms	-0.977 ms	-0.066	Argentina
9	200.89.165.233	50.958 ms	30.072 ms	0.041	Argentina
10	200.89.165.222	24.387 ms	-26.571 ms	-0.154	Argentina
11	208.178.195.205	26.030 ms	1.643 ms	-0.057	Alexandria, United States
12	67.16.129.202	163.968 ms	137.938 ms	0.412	United States
13	67.17.192.6	166.172 ms	2.204 ms	-0.055	United States
14	203.208.171.145	165.901 ms	-0.271 ms	-0.064	Singapore
15	203.208.151.85	347.083 ms	181.182 ms	0.560	Singapore
16	203.208.182.37	335.744 ms	-11.339 ms	-0.102	Singapore
17	203.208.174.82	347.708 ms	11.964 ms	-0.022	Singapore
18	124.158.224.45	356.743 ms	9.035 ms	-0.032	Malaysia
19	61.11.210.1	338.309 ms	-18.434 ms	-0.126	Malaysia
20	61.11.210.175	345.785 ms	7.476 ms	-0.037	Malaysia
21	124.158.228.58	349.735 ms	3.950 ms	-0.049	Malaysia
22	110.4.44.250	352.120 ms	2.385 ms	-0.054	Penang, Malaysia
23	110.4.45.250	346.183 ms	-5.937 ms	-0.083	Penang, Malaysia

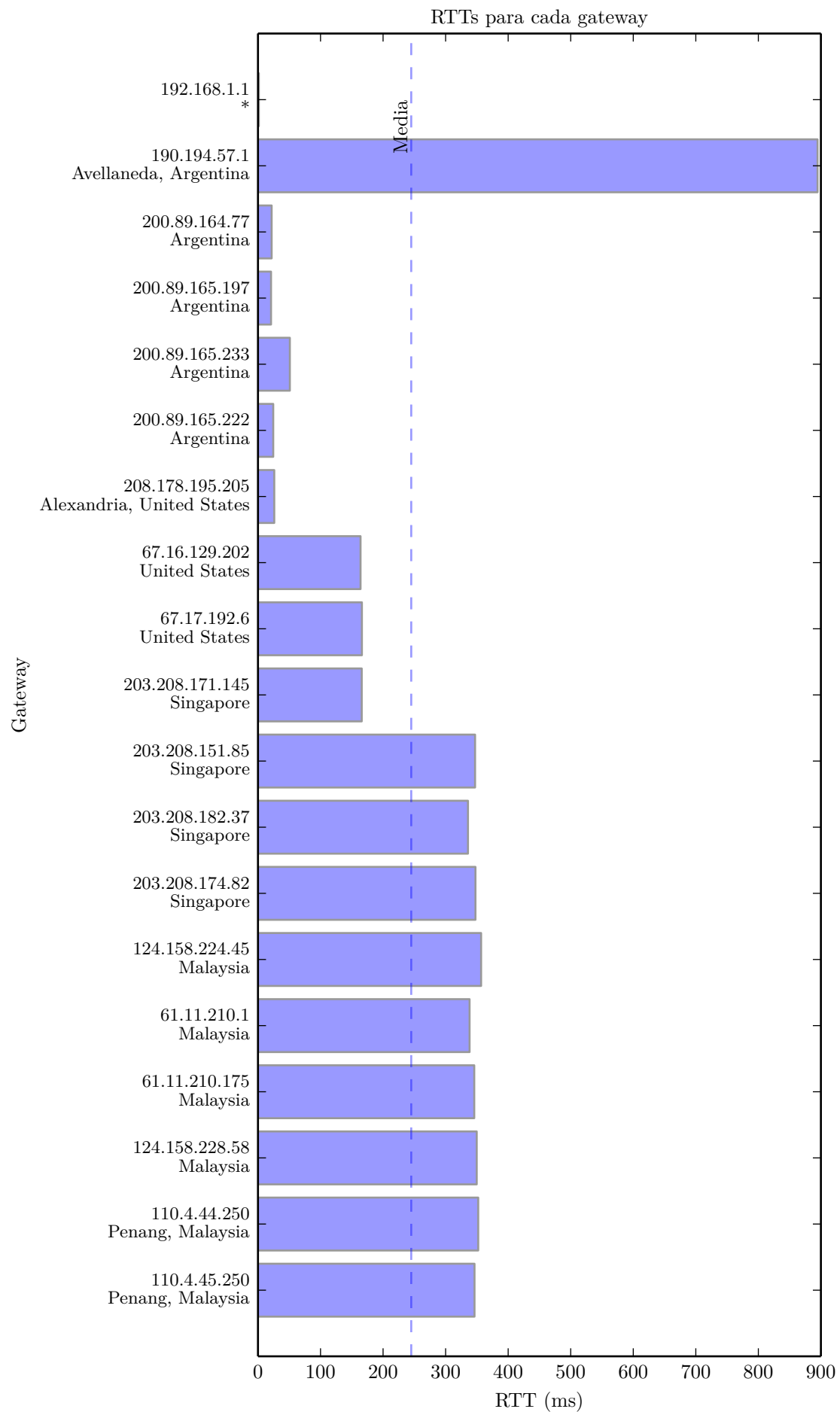
Absolute RTT mean: 245.031 ms

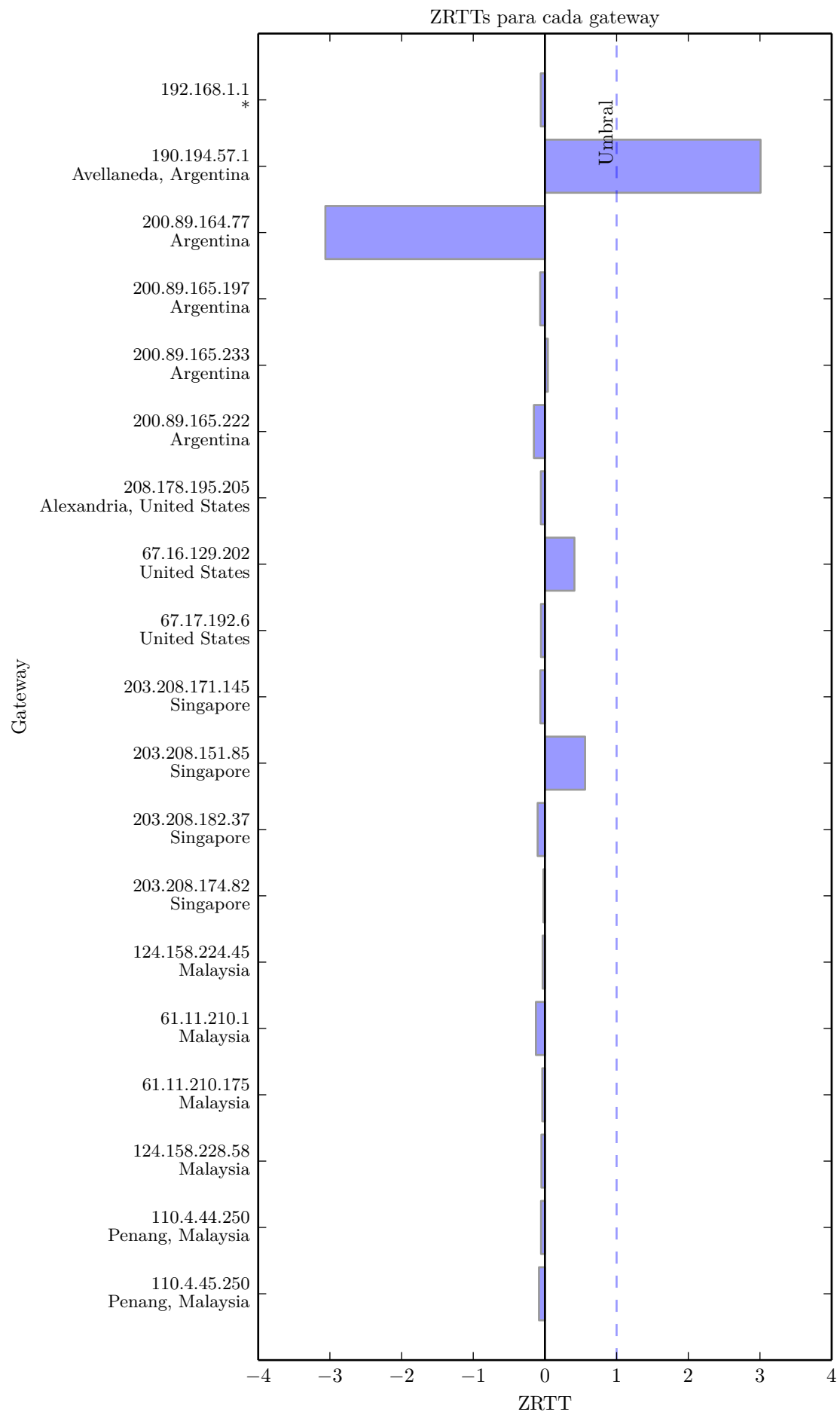
Absolute RTT std. deviation: 208.753 ms

Relative RTT mean: 18.220 ms

Relative RTT std. deviation: 290.890 ms







4. Discusión

Pendiente.

5. Conclusión

Pendiente.

Referencias

[1] *Scapy Project*. <http://www.secdev.org/projects/scapy>, Mayo de 2014