

Report on activity for network telescope

155.x.x/24

For the period 04/07/2013 - 01/02/2014

Analysis has been performed on datasets extracted from the packet capture to produce the graphical and tabular output of the report. There has however been no interpretation of the results generated by the report. A latex document of the report has also been created however that can be altered to include an interpretation of results.

Contents

1	07/2013	3
1.1	Destination IP	3
1.2	Destination Port TCP	4
1.3	Destination Port UDP	5
1.4	Source IP	6
1.5	Source Port	7
1.6	Geolocation results of source IPs	8
2	08/2013	9
2.1	Destination IP	9
2.2	Destination Port TCP	10
2.3	Destination Port UDP	11
2.4	Source IP	12
2.5	Source Port	13
2.6	Geolocation results of source IPs	14

3	09/2013	15
3.1	Destination IP	15
3.2	Destination Port TCP	16
3.3	Destination Port UDP	17
3.4	Source IP	18
3.5	Source Port	19
3.6	Geolocation results of source IPs	20
4	10/2013	21
4.1	Destination IP	21
4.2	Destination Port TCP	22
4.3	Destination Port UDP	23
4.4	Source IP	24
4.5	Source Port	25
4.6	Geolocation results of source IPs	26
5	11/2013	27
5.1	Destination IP	27
5.2	Destination Port TCP	28
5.3	Destination Port UDP	29
5.4	Source IP	30
5.5	Source Port	31
5.6	Geolocation results of source IPs	32
6	12/2013	33
6.1	Destination IP	33
6.2	Destination Port TCP	34
6.3	Destination Port UDP	35
6.4	Source IP	36
6.5	Source Port	37
6.6	Geolocation results of source IPs	38
7	01/2014	39
7.1	Destination IP	39
7.2	Destination Port TCP	40
7.3	Destination Port UDP	41
7.4	Source IP	42
7.5	Source Port	43

7.6	Geolocation results of source IPs	44
8	02/2014	45
8.1	Destination IP	45
8.2	Destination Port TCP	46
8.3	Destination Port UDP	47
8.4	Source IP	48
8.5	Source Port	49
8.6	Geolocation results of source IPs	50
9	Entire Dataset	51
9.1	Destination IP	51
9.2	Destination Port TCP	52
9.3	Destination Port UDP	53
9.4	Source IP	54
9.5	Source Port	55
9.6	Geolocation results of source IPs	56
9.7	Hilbert curve of darknet	57

1 07/2013

1.1 Destination IP

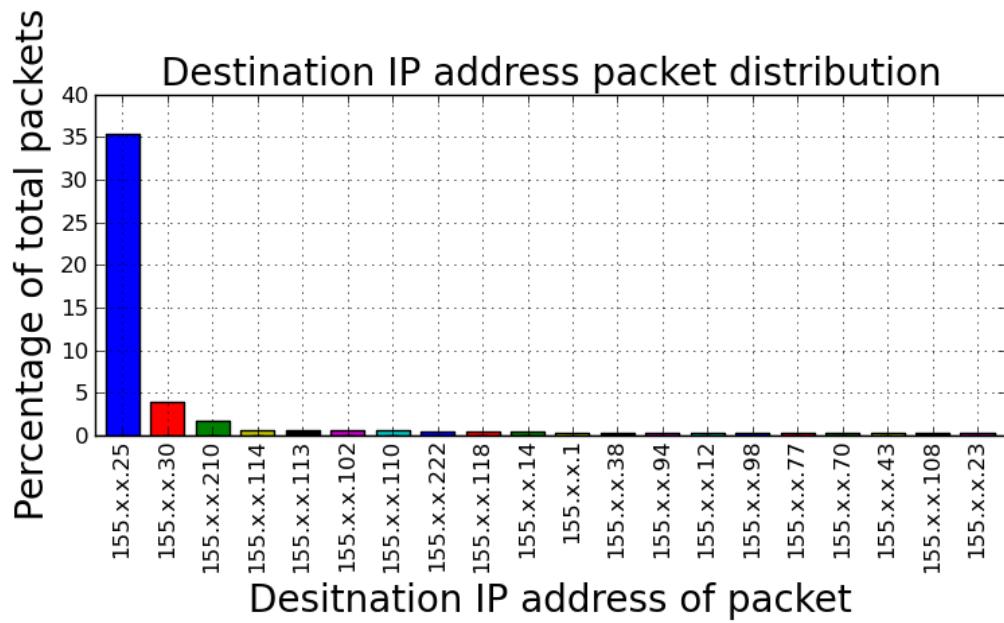


Figure 1: Destination IP packet count

Table 1: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.25	488243	35.42
155.x.x.30	54948	3.986
155.x.x.210	24029	1.743
155.x.x.114	8988	0.652
155.x.x.113	8945	0.648
155.x.x.102	8361	0.606
155.x.x.110	7882	0.571
155.x.x.222	7206	0.522
155.x.x.118	5907	0.428
155.x.x.14	5415	0.392
155.x.x.1	4738	0.343
155.x.x.38	4675	0.339
155.x.x.94	4642	0.336
155.x.x.12	4486	0.325
155.x.x.98	4375	0.317
155.x.x.77	4340	0.314
155.x.x.70	4252	0.308
155.x.x.43	4232	0.307
155.x.x.108	4159	0.301
155.x.x.23	4119	0.298
Total:	663942	39

Number of unique hits: 1378320

1.2 Destination Port TCP

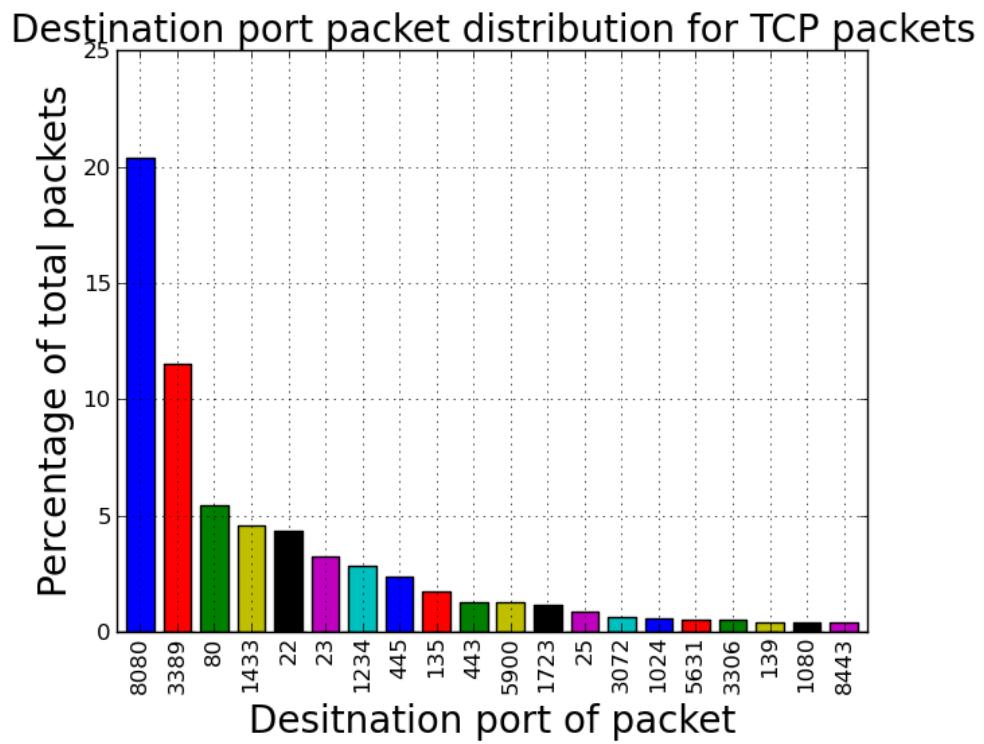


Figure 2: Destination IP packet count

Table 2: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
8080	117397	20.36
3389	66330	11.50
80	31342	5.437
1433	26531	4.602
22	25067	4.348
23	18785	3.258
1234	16309	2.829
445	13848	2.402
135	9947	1.725
443	7341	1.273
5900	7246	1.257
1723	6611	1.146
25	4991	0.865
3072	3664	0.635
1024	3524	0.611
5631	3210	0.556
3306	2985	0.517
139	2403	0.416
1080	2319	0.402
8443	2283	0.396
Total:	372133	55

Number of unique hits: 576406

1.3 Destination Port UDP

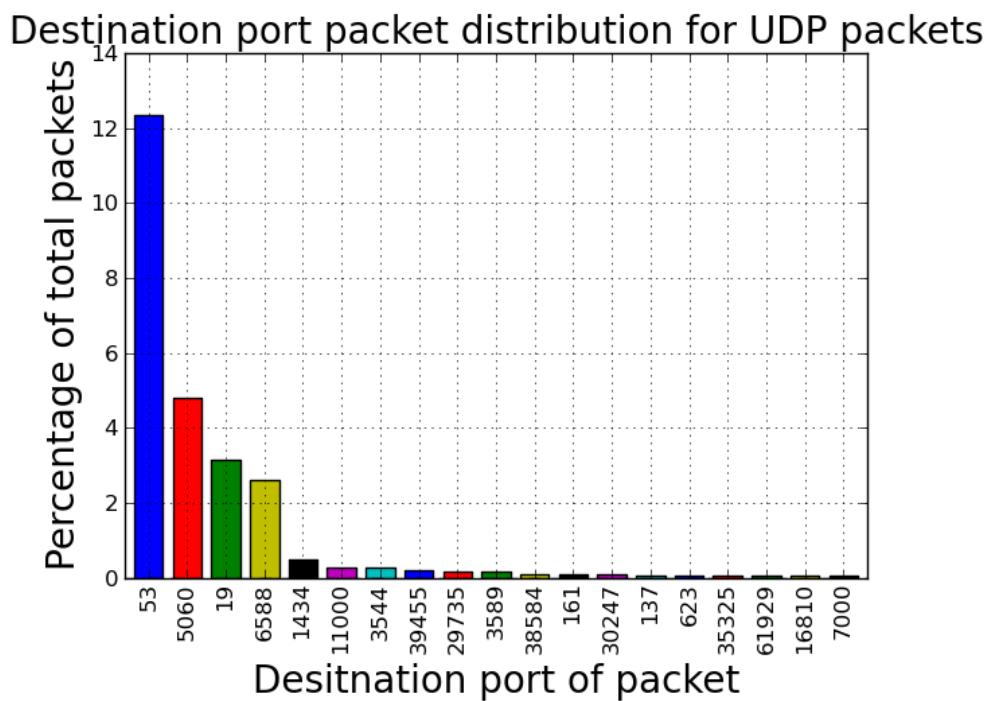


Figure 3: Destination IP packet count

Table 3: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
53	98965	12.34
5060	38619	4.815
19	25168	3.138
6588	21066	2.626
1434	4147	0.517
11000	2249	0.280
3544	2144	0.267
39455	1821	0.227
29735	1472	0.183
3589	1339	0.166
38584	948	0.118
161	836	0.104
30247	709	0.088
137	581	0.072
623	515	0.064
35325	458	0.057
61929	452	0.056
16810	450	0.056
7000	444	0.055
Total:	202383	21

Number of unique hits: 801914

1.4 Source IP

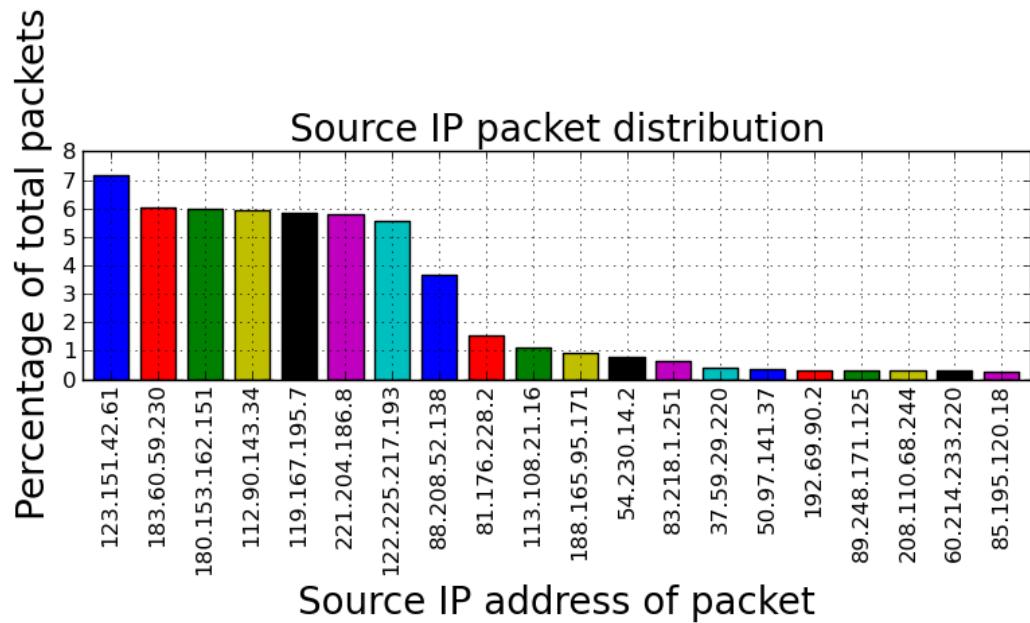


Figure 4: Destination IP packet count

Table 4: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
123.151.42.61	98547	7.149
183.60.59.230	83032	6.024
180.153.162.151	82777	6.005
112.90.143.34	81568	5.917
119.167.195.7	80195	5.818
221.204.186.8	80056	5.808
122.225.217.193	76843	5.575
88.208.52.138	50611	3.671
81.176.228.2	21057	1.527
113.108.21.16	15575	1.129
188.165.95.171	12737	0.924
54.230.14.2	10953	0.794
83.218.1.251	9126	0.662
37.59.29.220	5430	0.393
50.97.141.37	4837	0.350
192.69.90.2	4234	0.307
89.248.171.125	4215	0.305
208.110.68.244	4096	0.297
60.214.233.220	3912	0.283
85.195.120.18	3723	0.270
Total:	733524	44

Number of unique hits: 1378320

1.5 Source Port

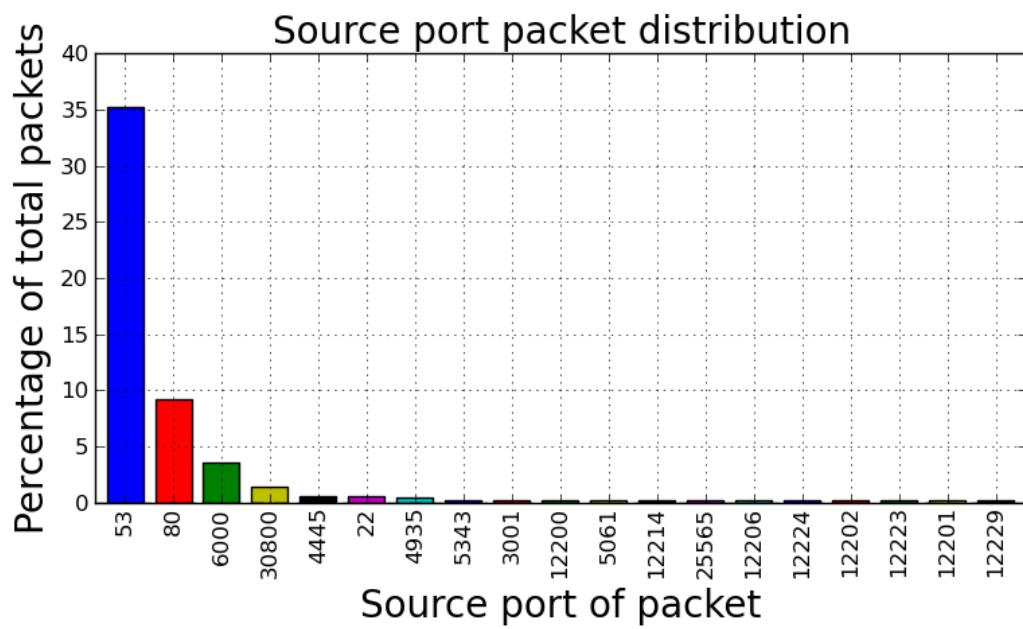


Figure 5: Destination IP packet count

Table 5: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
53	486264	35.27
80	127746	9.268
6000	48539	3.521
30800	19802	1.436
4445	8202	0.595
22	7548	0.547
4935	6353	0.460
5343	3724	0.270
3001	3592	0.260
12200	3157	0.229
5061	3064	0.222
12214	2913	0.211
25565	2892	0.209
12206	2859	0.207
12224	2836	0.205
12202	2779	0.201
12223	2778	0.201
12201	2776	0.201
12229	2775	0.201
Total:	740599	48

Number of unique hits: 1378320

1.6 Geolocation results of source IPs

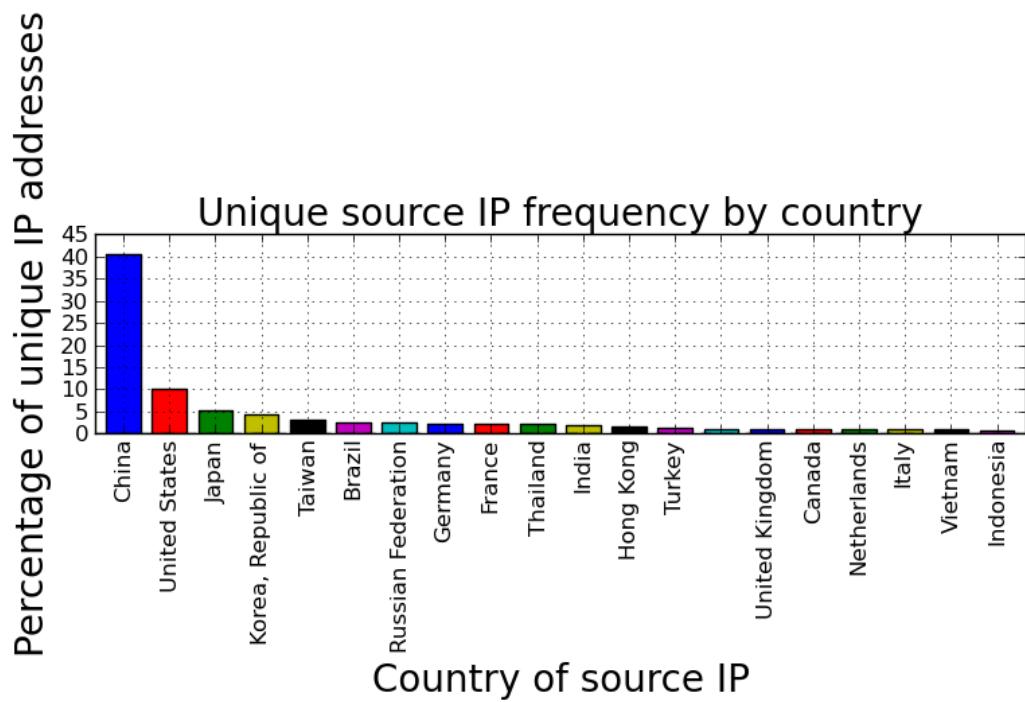


Figure 6: Destination IP packet count

Table 6: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	21347	40.48
United States	5368	10.18
Japan	2822	5.352
Korea, Republic of	2212	4.195
Taiwan	1646	3.121
Brazil	1352	2.564
Russian Federation	1303	2.471
Germany	1224	2.321
France	1219	2.311
Thailand	1181	2.239
India	935	1.773
Hong Kong	877	1.663
Turkey	726	1.376
	584	1.107
United Kingdom	550	1.043
Canada	534	1.012
Netherlands	523	0.991
Italy	496	0.940
Vietnam	483	0.916
Indonesia	410	0.777
Total:	45792	78

Number of unique hits: 52726

2 08/2013

2.1 Destination IP

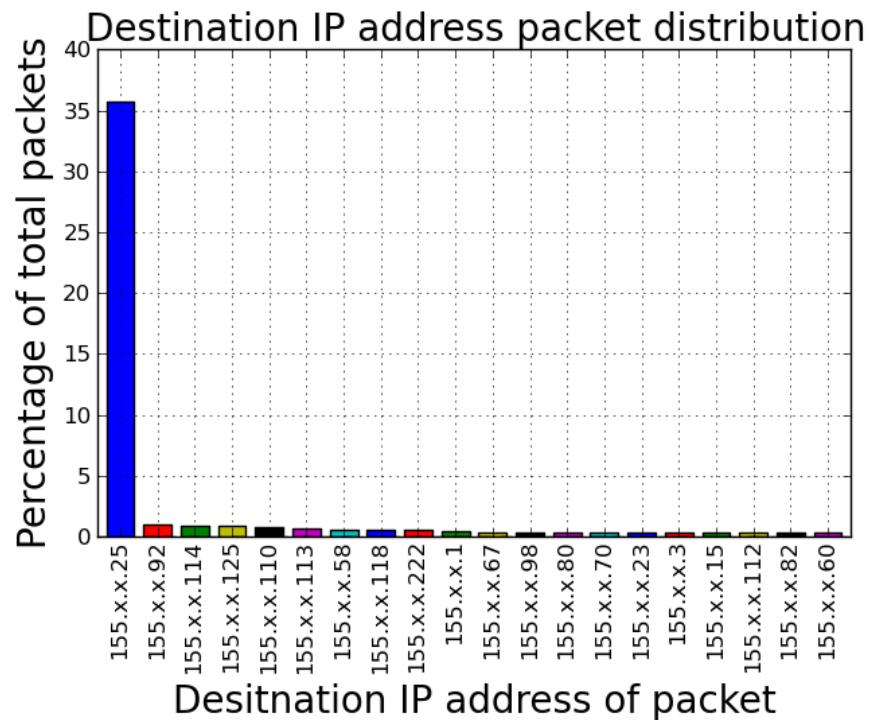


Figure 7: Destination IP packet count

Table 7: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.25	502043	35.75
155.x.x.92	14173	1.009
155.x.x.114	12928	0.920
155.x.x.125	12507	0.890
155.x.x.110	10649	0.758
155.x.x.113	9450	0.672
155.x.x.58	7227	0.514
155.x.x.118	6928	0.493
155.x.x.222	6923	0.492
155.x.x.1	5709	0.406
155.x.x.67	4623	0.329
155.x.x.98	4516	0.321
155.x.x.80	4299	0.306
155.x.x.70	4290	0.305
155.x.x.23	4211	0.299
155.x.x.3	4135	0.294
155.x.x.15	4109	0.292
155.x.x.112	4088	0.291
155.x.x.82	4079	0.290
155.x.x.60	3973	0.282
Total:	630860	36

Number of unique hits: 1404281

2.2 Destination Port TCP

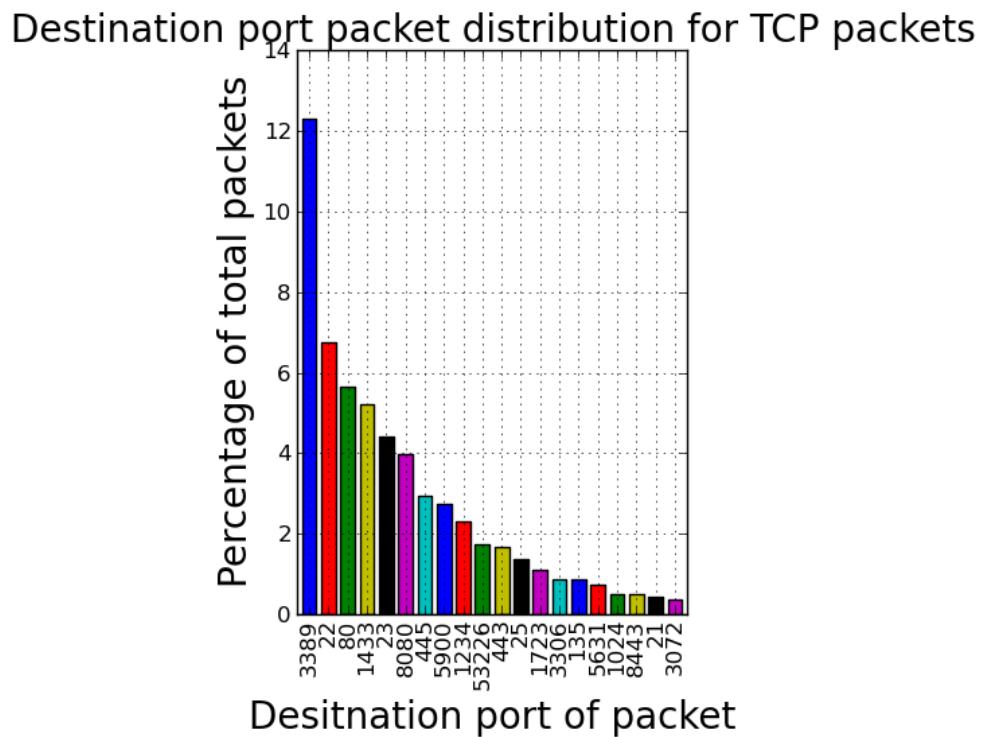


Figure 8: Destination IP packet count

Table 8: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
3389	74183	12.30
22	40824	6.773
80	34131	5.663
1433	31444	5.217
23	26576	4.409
8080	23935	3.971
445	17727	2.941
5900	16636	2.760
1234	13962	2.316
53226	10525	1.746
443	10123	1.679
25	8309	1.378
1723	6659	1.104
3306	5339	0.885
135	5301	0.879
5631	4454	0.739
1024	3001	0.497
8443	2974	0.493
21	2692	0.446
3072	2309	0.383
Total:	341104	45

Number of unique hits: 602688

2.3 Destination Port UDP

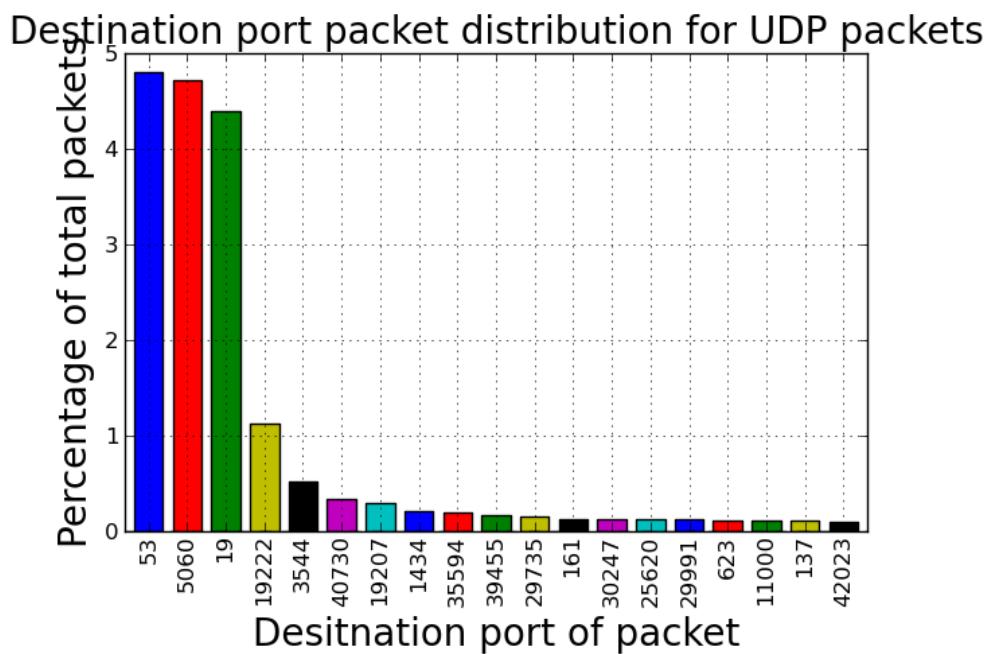


Figure 9: Destination IP packet count

Table 9: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
53	38545	4.808
5060	37777	4.712
19	35181	4.388
19222	9003	1.123
3544	4119	0.513
40730	2688	0.335
19207	2315	0.288
1434	1598	0.199
35594	1521	0.189
39455	1291	0.161
29735	1203	0.150
161	1024	0.127
30247	999	0.124
25620	988	0.123
29991	940	0.117
623	820	0.102
11000	816	0.101
137	815	0.101
42023	780	0.097
Total:	142423	13

Number of unique hits: 801593

2.4 Source IP

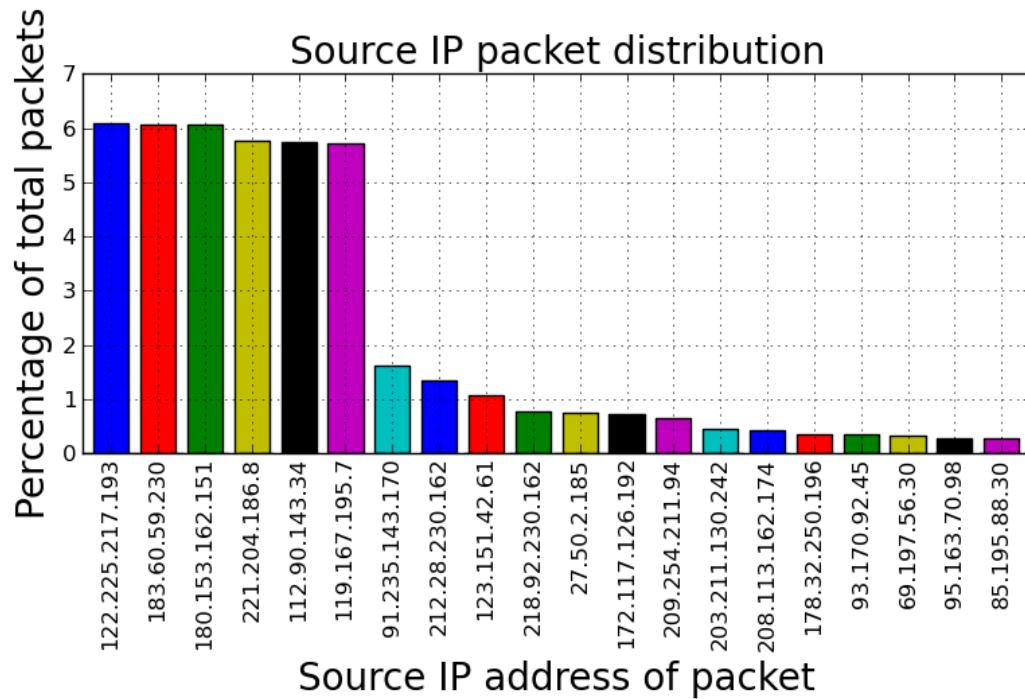


Figure 10: Destination IP packet count

Table 10: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
122.225.217.193	85534	6.090
183.60.59.230	85283	6.073
180.153.162.151	85271	6.072
221.204.186.8	81126	5.777
112.90.143.34	80764	5.751
119.167.195.7	80351	5.721
91.235.143.170	22668	1.614
212.28.230.162	18778	1.337
123.151.42.61	15180	1.080
218.92.230.162	10978	0.781
27.50.2.185	10525	0.749
172.117.126.192	10200	0.726
209.254.211.94	9037	0.643
203.211.130.242	6237	0.444
208.113.162.174	6120	0.435
178.32.250.196	5109	0.363
93.170.92.45	5068	0.360
69.197.56.30	4495	0.320
95.163.70.98	4037	0.287
85.195.88.30	4015	0.285
Total:	630776	36

Number of unique hits: 1404281

2.5 Source Port

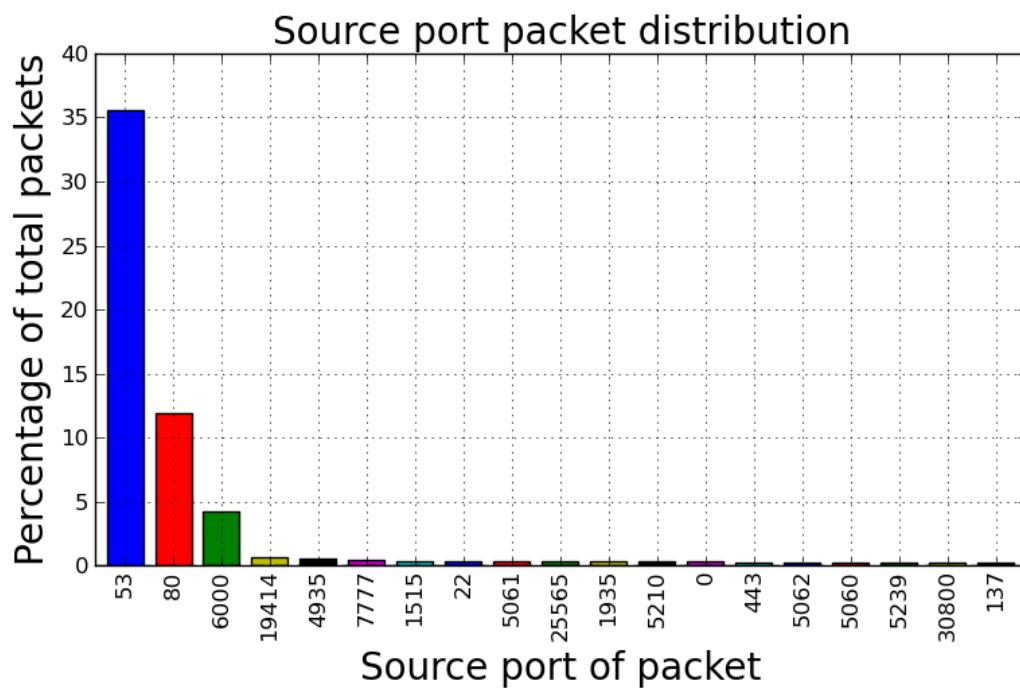


Figure 11: Destination IP packet count

Table 11: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
53	499357	35.55
80	167618	11.93
6000	59957	4.269
19414	8999	0.640
4935	7389	0.526
7777	6496	0.462
1515	5216	0.371
22	4558	0.324
5061	4525	0.322
25565	4181	0.297
1935	4179	0.297
5210	4016	0.285
0	3922	0.279
443	3866	0.275
5062	3842	0.273
5060	3649	0.259
5239	2994	0.213
30800	2821	0.200
137	2782	0.198
Total:	800367	50

Number of unique hits: 1404281

2.6 Geolocation results of source IPs

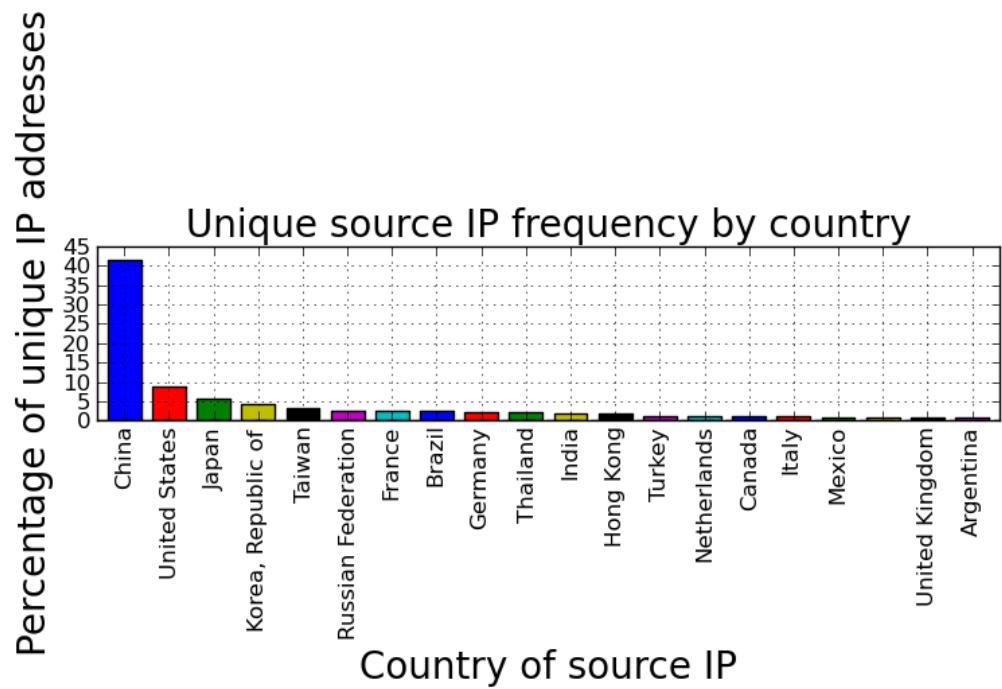


Figure 12: Destination IP packet count

Table 12: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	27041	41.43
United States	5808	8.898
Japan	3647	5.587
Korea, Republic of	2809	4.303
Taiwan	2076	3.180
Russian Federation	1723	2.639
France	1636	2.506
Brazil	1552	2.377
Germany	1433	2.195
Thailand	1324	2.028
India	1162	1.780
Hong Kong	1084	1.660
Turkey	766	1.173
Netherlands	713	1.092
Canada	682	1.044
Italy	635	0.972
Mexico	581	0.890
	577	0.884
United Kingdom	557	0.853
Argentina	542	0.830
Total:	56348	76

Number of unique hits: 65266

3 09/2013

3.1 Destination IP

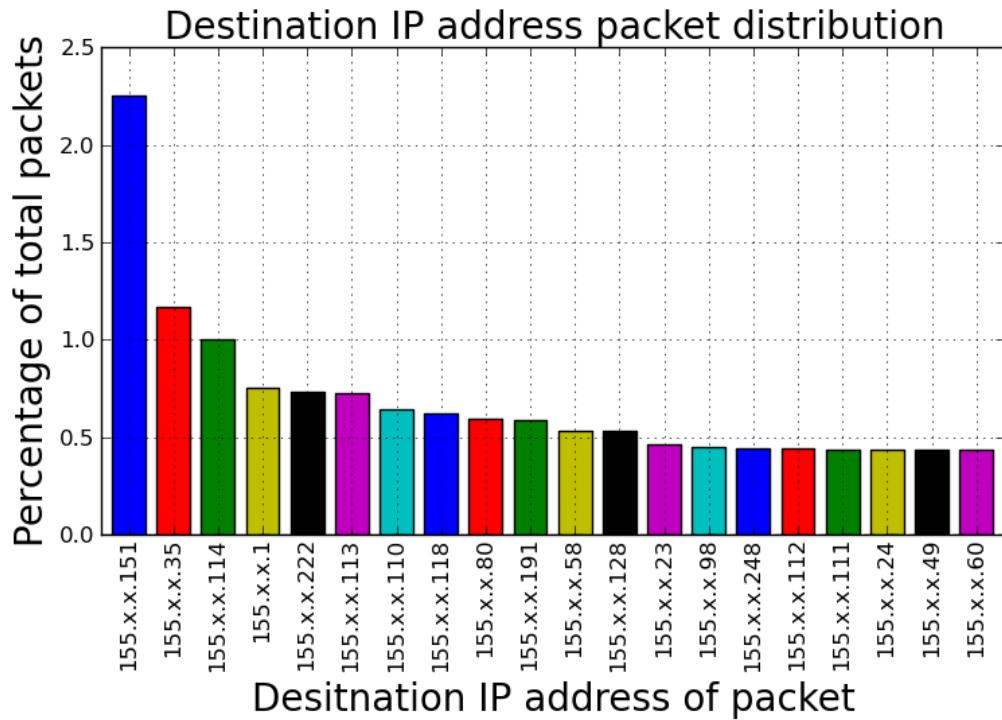


Figure 13: Destination IP packet count

Table 13: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.151	26284	2.251
155.x.x.35	13636	1.168
155.x.x.114	11670	0.999
155.x.x.1	8779	0.752
155.x.x.222	8556	0.732
155.x.x.113	8472	0.725
155.x.x.110	7505	0.642
155.x.x.118	7289	0.624
155.x.x.80	6901	0.591
155.x.x.191	6864	0.587
155.x.x.58	6223	0.533
155.x.x.128	6190	0.530
155.x.x.23	5372	0.460
155.x.x.98	5223	0.447
155.x.x.248	5175	0.443
155.x.x.112	5160	0.442
155.x.x.111	5106	0.437
155.x.x.24	5103	0.437
155.x.x.49	5093	0.436
155.x.x.60	5058	0.433
Total:	159659	3

Number of unique hits: 1167391

3.2 Destination Port TCP

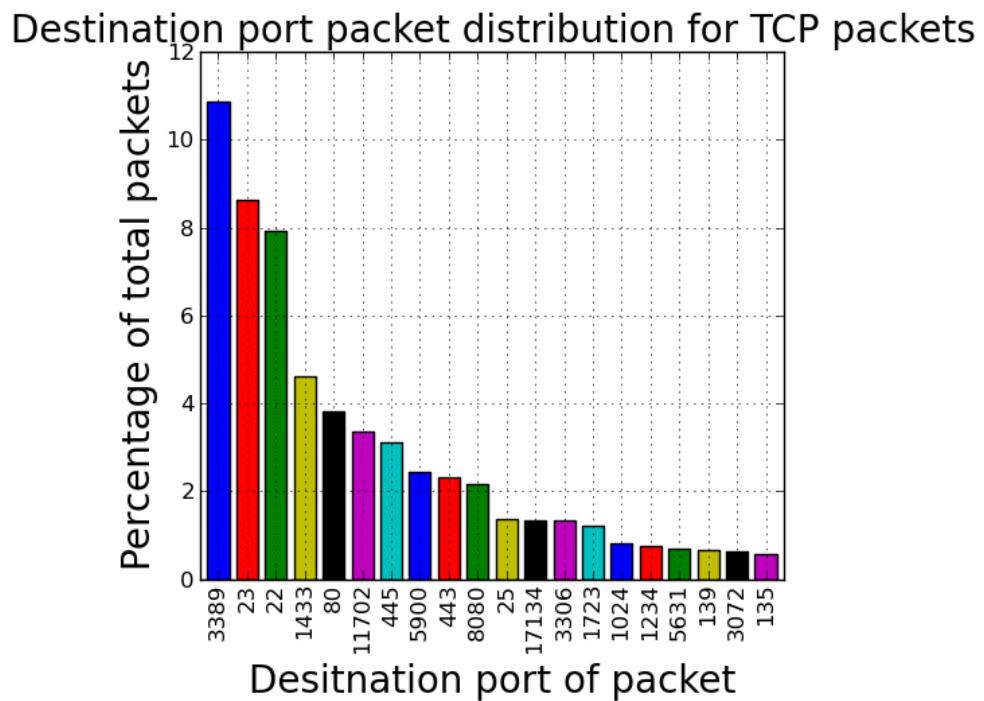


Figure 14: Destination IP packet count

Table 14: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
3389	73348	10.88
23	58144	8.627
22	53472	7.934
1433	31117	4.617
80	25841	3.834
11702	22556	3.346
445	20920	3.104
5900	16491	2.447
443	15545	2.306
8080	14561	2.160
25	9153	1.358
17134	9000	1.335
3306	8983	1.332
1723	8196	1.216
1024	5519	0.818
1234	5027	0.745
5631	4760	0.706
139	4469	0.663
3072	4328	0.642
135	3857	0.572
Total:	395287	48

Number of unique hits: 673923

3.3 Destination Port UDP

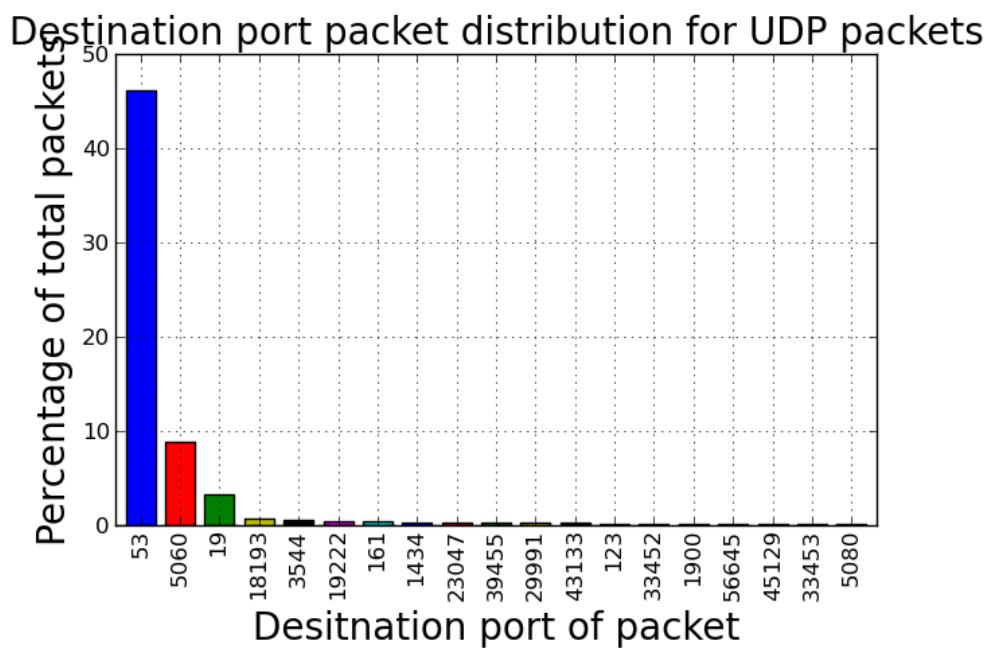


Figure 15: Destination IP packet count

Table 15: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
53	227691	46.14
5060	43312	8.777
19	16412	3.325
18193	3159	0.640
3544	2457	0.497
19222	2105	0.426
161	2064	0.418
1434	1551	0.314
23047	1414	0.286
39455	1226	0.248
29991	1079	0.218
43133	986	0.199
123	861	0.174
33452	841	0.170
1900	767	0.155
56645	730	0.147
45129	723	0.146
33453	692	0.140
5080	585	0.118
Total:	308655	57

Number of unique hits: 493468

3.4 Source IP

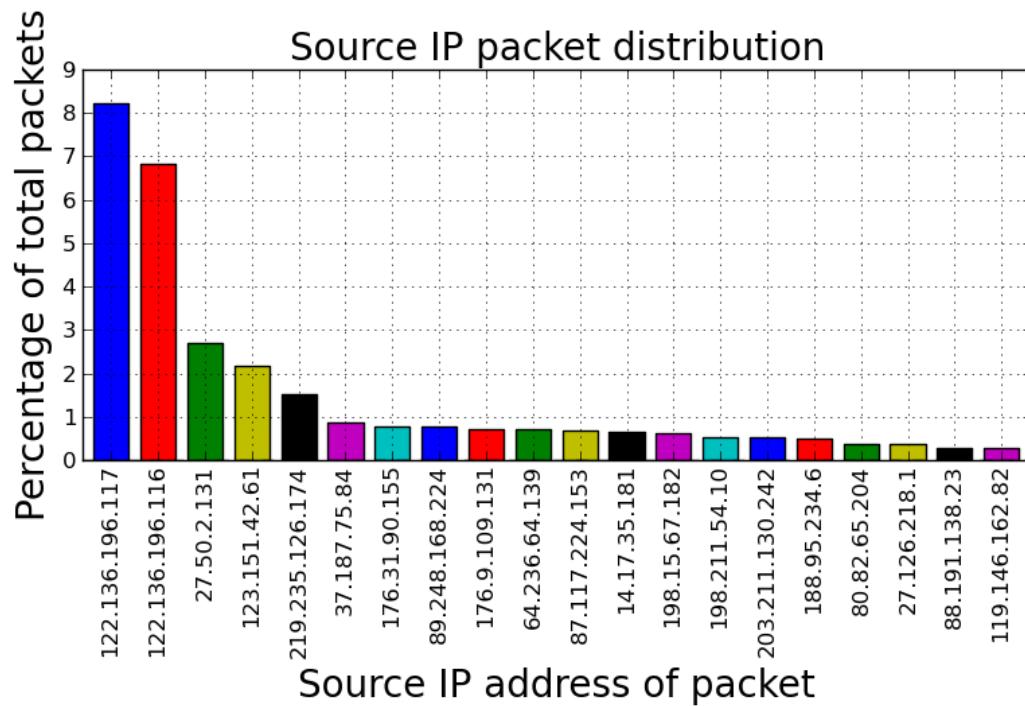


Figure 16: Destination IP packet count

Table 16: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
122.136.196.117	95921	8.216
122.136.196.116	79761	6.832
27.50.2.131	31544	2.702
123.151.42.61	25285	2.165
219.235.126.174	17894	1.532
37.187.75.84	10329	0.884
176.31.90.155	9103	0.779
89.248.168.224	8983	0.769
176.9.109.131	8410	0.720
64.236.64.139	8287	0.709
87.117.224.153	8192	0.701
14.17.35.181	7680	0.657
198.15.67.182	7165	0.613
198.211.54.10	6191	0.530
203.211.130.242	6129	0.525
188.95.234.6	5888	0.504
80.82.65.204	4352	0.372
27.126.218.1	4352	0.372
88.191.138.23	3325	0.284
119.146.162.82	3270	0.280
Total:	352061	19

Number of unique hits: 1167391

3.5 Source Port

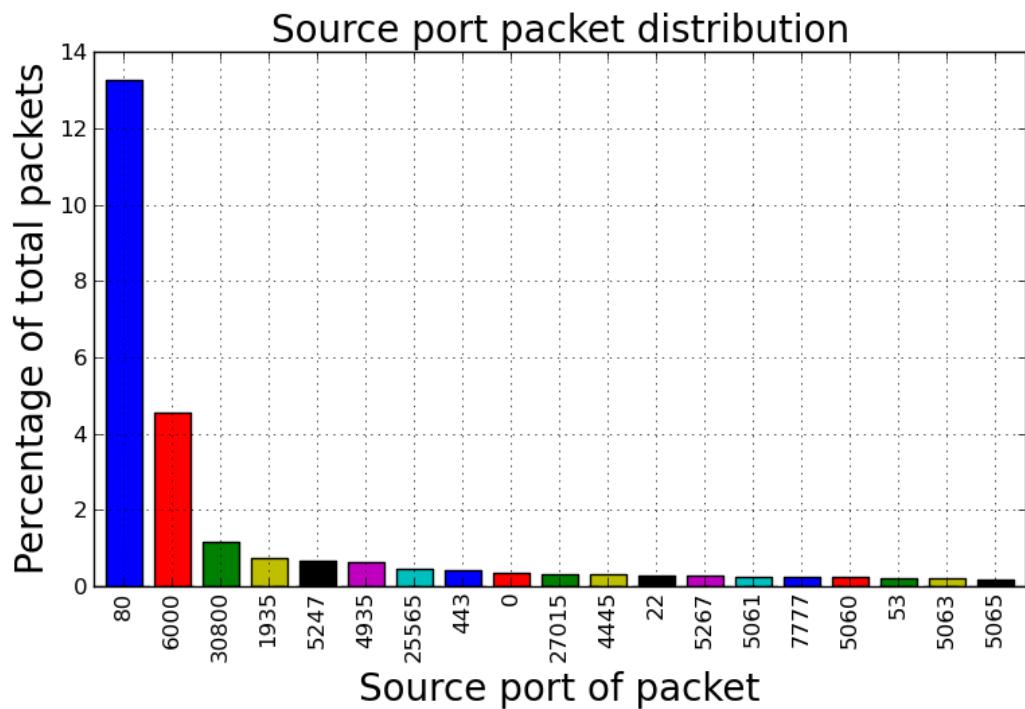


Figure 17: Destination IP packet count

Table 17: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
80	154923	13.27
6000	53027	4.542
30800	13447	1.151
1935	8617	0.738
5247	7937	0.679
4935	7271	0.622
25565	5275	0.451
443	5161	0.442
0	3980	0.340
27015	3617	0.309
4445	3585	0.307
22	3521	0.301
5267	3314	0.283
5061	3080	0.263
7777	2955	0.253
5060	2900	0.248
53	2718	0.232
5063	2518	0.215
5065	2307	0.197
Total:	290153	18

Number of unique hits: 1167391

3.6 Geolocation results of source IPs

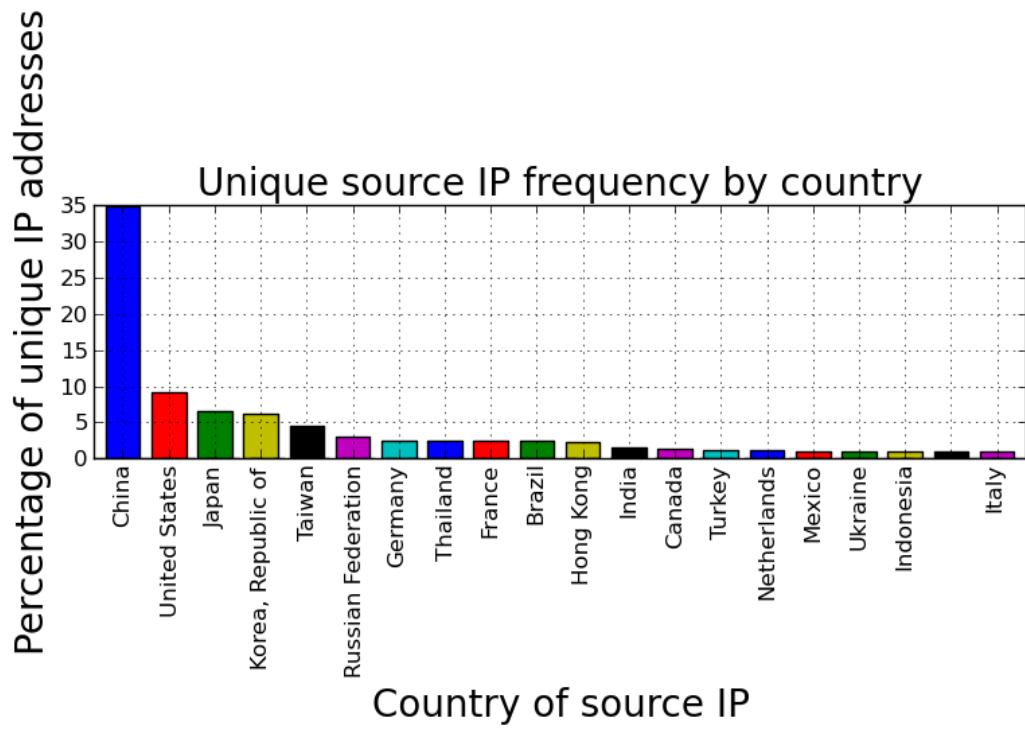


Figure 18: Destination IP packet count

Table 18: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	21430	34.86
United States	5649	9.191
Japan	4034	6.563
Korea, Republic of	3803	6.187
Taiwan	2805	4.564
Russian Federation	1904	3.098
Germany	1506	2.450
Thailand	1500	2.440
France	1496	2.434
Brazil	1477	2.403
Hong Kong	1421	2.312
India	984	1.601
Canada	843	1.371
Turkey	750	1.220
Netherlands	676	1.099
Mexico	606	0.986
Ukraine	591	0.961
Indonesia	560	0.911
	557	0.906
Italy	552	0.898
Total:	53144	76

Number of unique hits: 61458

4 10/2013

4.1 Destination IP

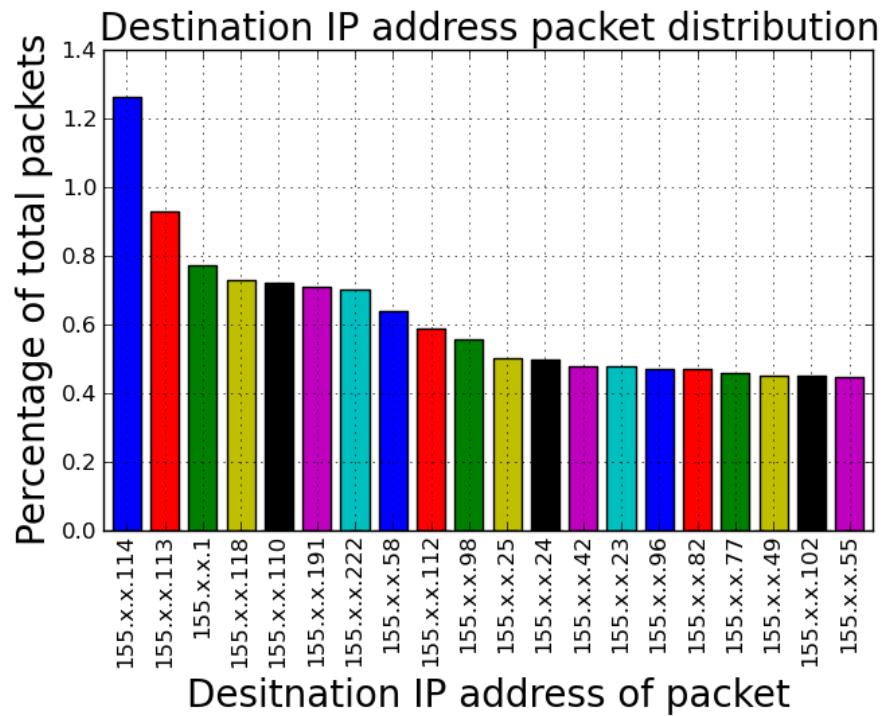


Figure 19: Destination IP packet count

Table 19: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.114	14066	1.263
155.x.x.113	10355	0.930
155.x.x.1	8600	0.772
155.x.x.118	8094	0.727
155.x.x.110	8023	0.720
155.x.x.191	7880	0.707
155.x.x.222	7822	0.702
155.x.x.58	7089	0.636
155.x.x.112	6560	0.589
155.x.x.98	6177	0.554
155.x.x.25	5593	0.502
155.x.x.24	5523	0.496
155.x.x.42	5322	0.478
155.x.x.23	5313	0.477
155.x.x.96	5235	0.470
155.x.x.82	5224	0.469
155.x.x.77	5105	0.458
155.x.x.49	5024	0.451
155.x.x.102	5002	0.449
155.x.x.55	4988	0.448
Total:	136995	1

Number of unique hits: 1113282

4.2 Destination Port TCP

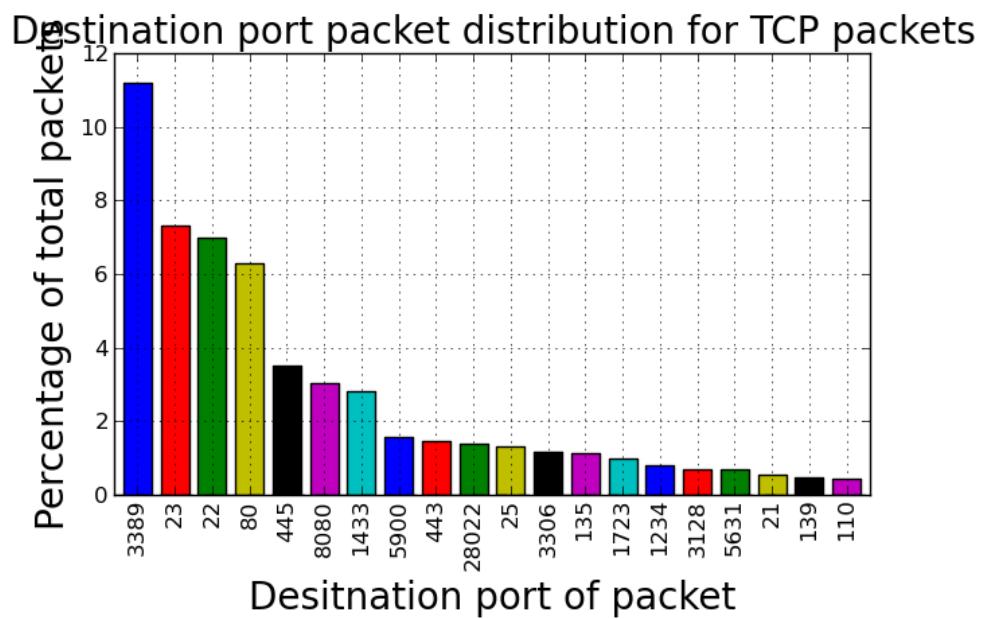


Figure 20: Destination IP packet count

Table 20: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
3389	74308	11.20
23	48443	7.306
22	46276	6.979
80	41835	6.309
445	23281	3.511
8080	20097	3.031
1433	18676	2.816
5900	10428	1.572
443	9718	1.465
28022	9218	1.390
25	8668	1.307
3306	7657	1.154
135	7587	1.144
1723	6656	1.003
1234	5439	0.820
3128	4596	0.693
5631	4533	0.683
21	3591	0.541
139	3027	0.456
110	3022	0.455
Total:	357056	45

Number of unique hits: 663005

4.3 Destination Port UDP

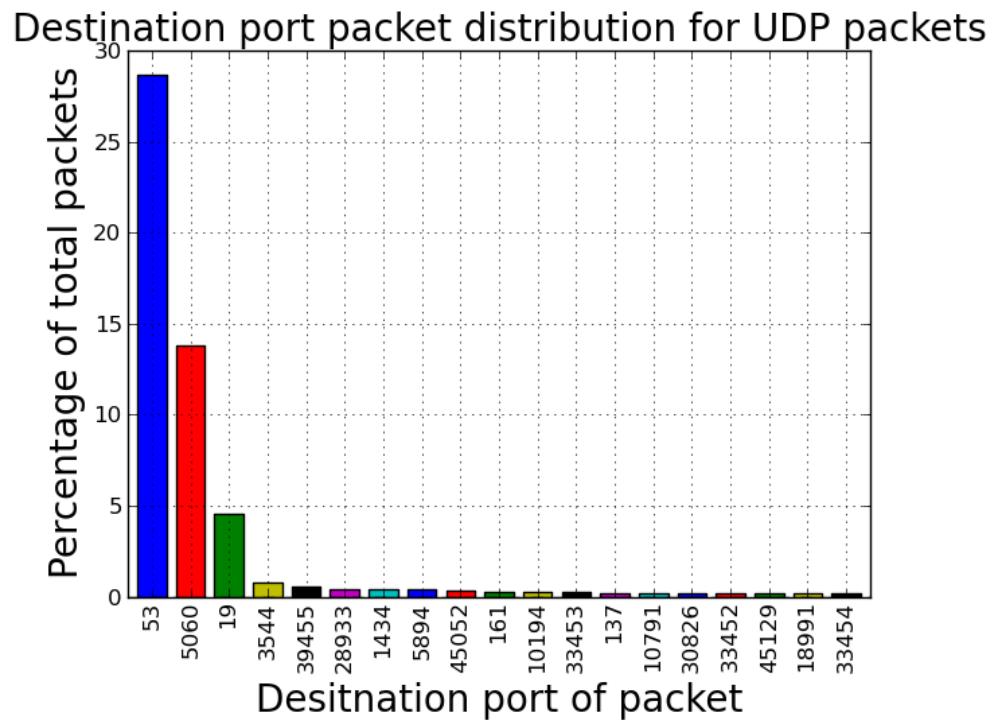


Figure 21: Destination IP packet count

Table 21: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
53	129166	28.68
5060	62159	13.80
19	20541	4.561
3544	3685	0.818
39455	2627	0.583
28933	2071	0.459
1434	1944	0.431
5894	1815	0.403
45052	1544	0.342
161	1406	0.312
10194	1273	0.282
33453	1197	0.265
137	1041	0.231
10791	1018	0.226
30826	976	0.216
33452	966	0.214
45129	852	0.189
18991	803	0.178
33454	802	0.178
Total:	235886	45

Number of unique hits: 450277

4.4 Source IP

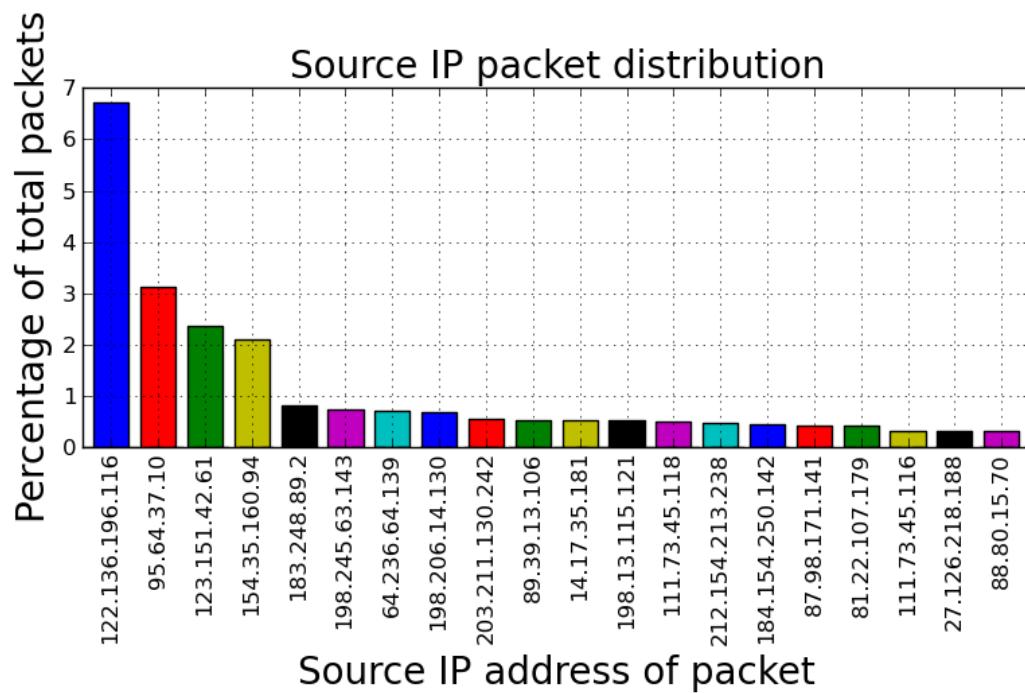


Figure 22: Destination IP packet count

Table 22: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
122.136.196.116	74922	6.729
95.64.37.10	34960	3.140
123.151.42.61	26314	2.363
154.35.160.94	23336	2.096
183.248.89.2	9216	0.827
198.245.63.143	8189	0.735
64.236.64.139	7932	0.712
198.206.14.130	7774	0.698
203.211.130.242	6235	0.560
89.39.13.106	5943	0.533
14.17.35.181	5888	0.528
198.13.115.121	5888	0.528
111.73.45.118	5731	0.514
212.154.213.238	5376	0.482
184.154.250.142	5155	0.463
87.98.171.141	4746	0.426
81.22.107.179	4670	0.419
111.73.45.116	3766	0.338
27.126.218.188	3605	0.323
88.80.15.70	3590	0.322
Total:	253236	13

Number of unique hits: 1113282

4.5 Source Port

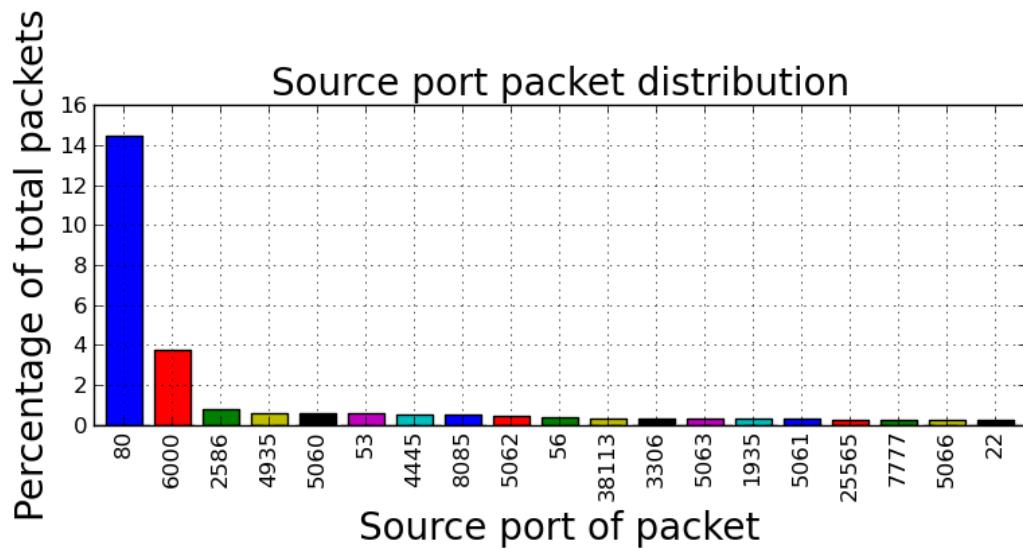


Figure 23: Destination IP packet count

Table 23: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
80	160641	14.42
6000	41607	3.737
2586	9233	0.829
4935	6905	0.620
5060	6680	0.600
53	6622	0.594
4445	6142	0.551
8085	6014	0.540
5062	5339	0.479
56	4156	0.373
38113	4019	0.361
3306	3796	0.340
5063	3786	0.340
1935	3725	0.334
5061	3591	0.322
25565	2986	0.268
7777	2887	0.259
5066	2816	0.252
22	2606	0.234
Total:	283551	17

Number of unique hits: 1113282

4.6 Geolocation results of source IPs

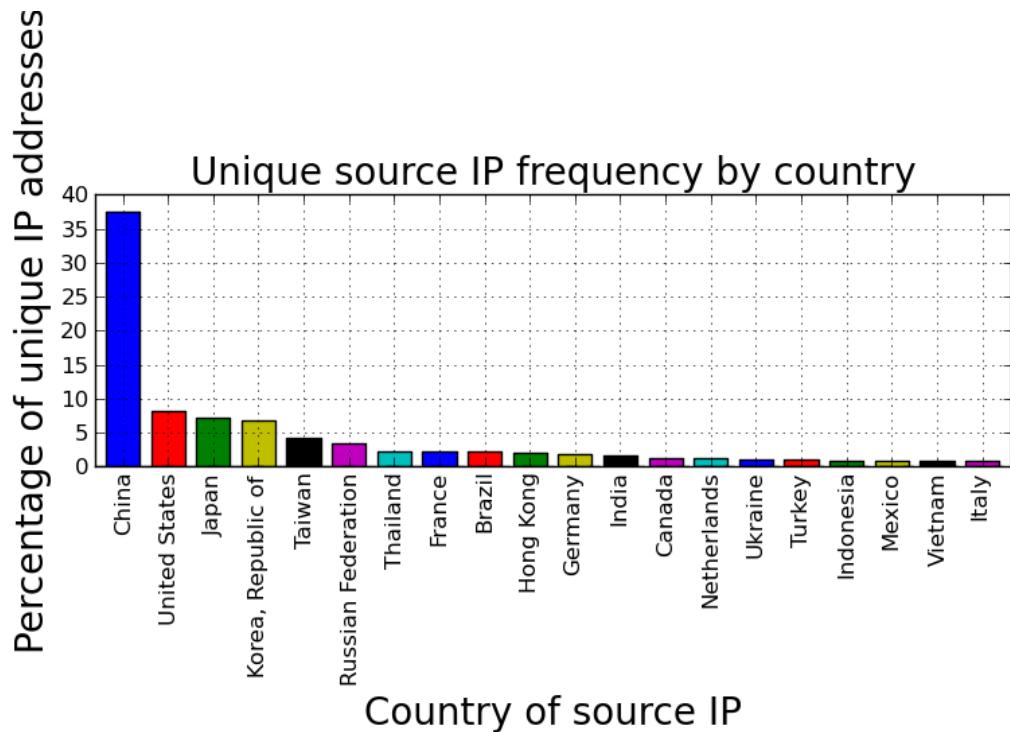


Figure 24: Destination IP packet count

Table 24: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	26915	37.56
United States	5877	8.201
Japan	5209	7.269
Korea, Republic of	4871	6.797
Taiwan	3054	4.262
Russian Federation	2449	3.417
Thailand	1619	2.259
France	1608	2.244
Brazil	1543	2.153
Hong Kong	1501	2.094
Germany	1265	1.765
India	1174	1.638
Canada	905	1.263
Netherlands	846	1.180
Ukraine	810	1.130
Turkey	754	1.052
Indonesia	611	0.852
Mexico	569	0.794
Vietnam	564	0.787
Italy	536	0.748
Total:	62680	79

Number of unique hits: 71654

5 11/2013

5.1 Destination IP

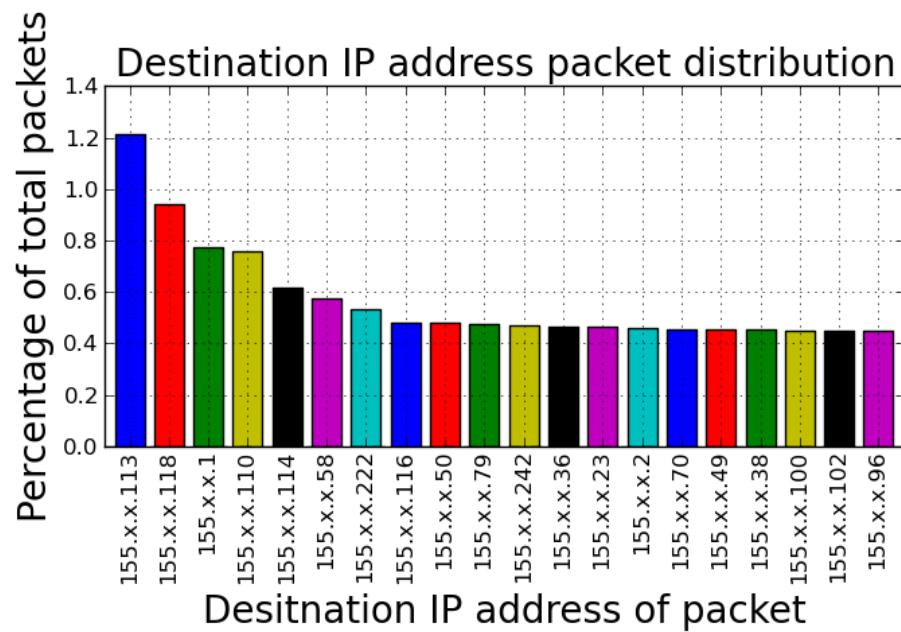


Figure 25: Destination IP packet count

Table 25: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.113	13092	1.215
155.x.x.118	10164	0.943
155.x.x.1	8343	0.774
155.x.x.110	8160	0.757
155.x.x.114	6635	0.616
155.x.x.58	6205	0.576
155.x.x.222	5728	0.531
155.x.x.116	5203	0.483
155.x.x.50	5195	0.482
155.x.x.79	5123	0.475
155.x.x.242	5055	0.469
155.x.x.36	5016	0.465
155.x.x.23	4990	0.463
155.x.x.2	4970	0.461
155.x.x.70	4908	0.455
155.x.x.49	4904	0.455
155.x.x.38	4873	0.452
155.x.x.100	4864	0.451
155.x.x.102	4858	0.451
155.x.x.96	4817	0.447
Total:	123103	1

Number of unique hits: 1076950

5.2 Destination Port TCP

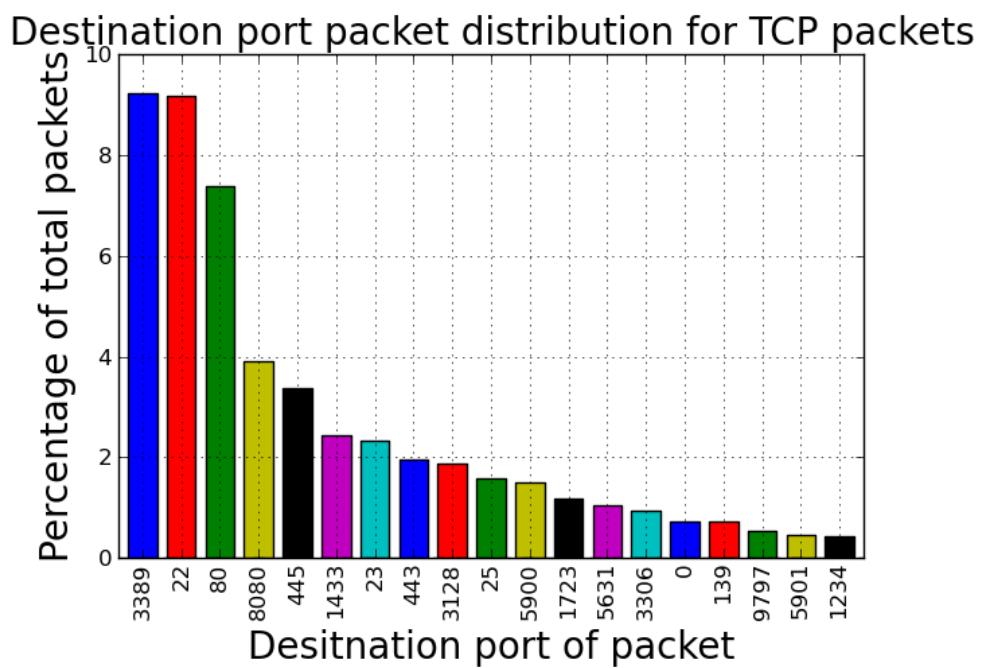


Figure 26: Destination IP packet count

Table 26: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
3389	64230	9.215
22	63987	9.181
80	51488	7.387
8080	27310	3.918
445	23587	3.384
1433	17004	2.439
23	16270	2.334
443	13660	1.959
3128	13061	1.874
25	11060	1.586
5900	10552	1.514
1723	8243	1.182
5631	7352	1.054
3306	6616	0.949
0	5140	0.737
139	5133	0.736
9797	3755	0.538
5901	3127	0.448
1234	2971	0.426
Total:	354546	41

Number of unique hits: 696944

5.3 Destination Port UDP

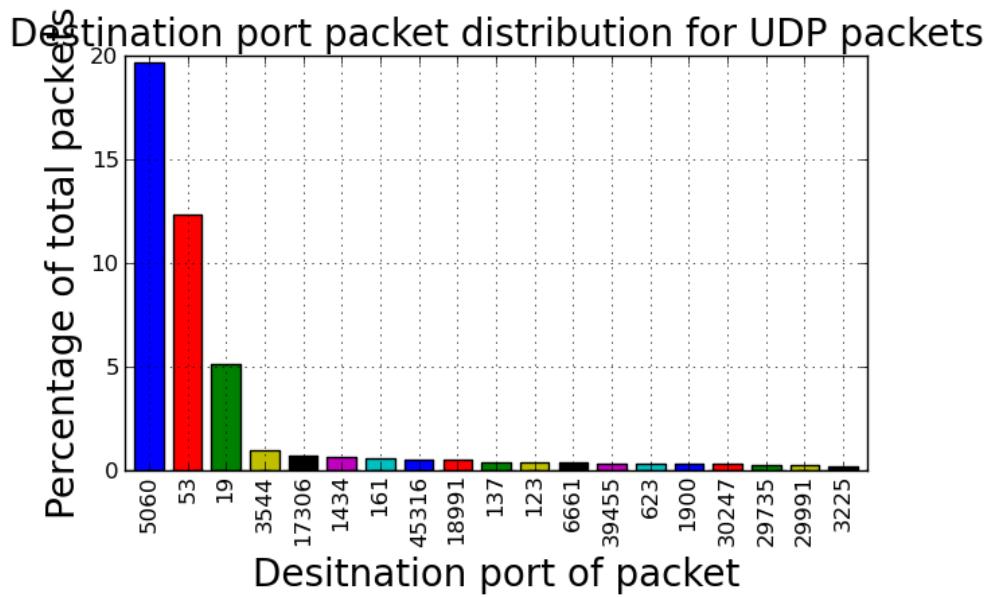


Figure 27: Destination IP packet count

Table 27: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
5060	74691	19.65
53	46832	12.32
19	19529	5.139
3544	3652	0.961
17306	2808	0.738
1434	2439	0.641
161	2110	0.555
45316	2095	0.551
18991	2027	0.533
137	1584	0.416
123	1580	0.415
6661	1505	0.396
39455	1310	0.344
623	1302	0.342
1900	1302	0.342
30247	1229	0.323
29735	1101	0.289
29991	1065	0.280
3225	855	0.224
Total:	169016	36

Number of unique hits: 380006

5.4 Source IP

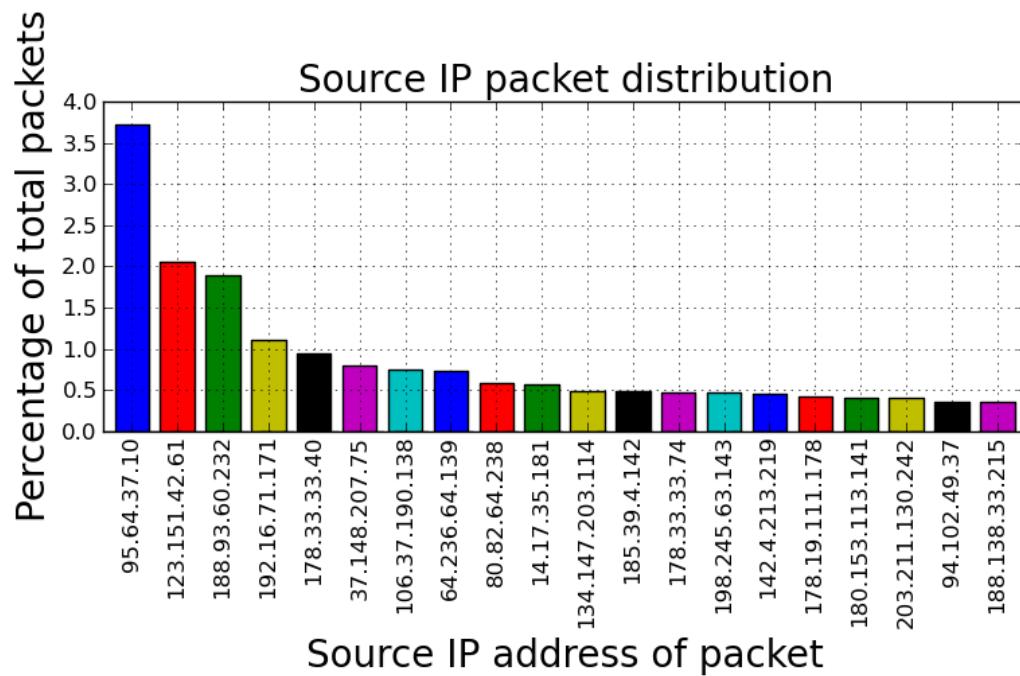


Figure 28: Destination IP packet count

Table 28: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
95.64.37.10	40012	3.715
123.151.42.61	22210	2.062
188.93.60.232	20344	1.889
192.16.71.171	11980	1.112
178.33.33.40	10198	0.946
37.148.207.75	8612	0.799
106.37.190.138	8088	0.751
64.236.64.139	7901	0.733
80.82.64.238	6389	0.593
14.17.35.181	6142	0.570
134.147.203.114	5349	0.496
185.39.4.142	5233	0.485
178.33.33.74	5158	0.478
198.245.63.143	5110	0.474
142.4.213.219	4864	0.451
178.19.111.178	4603	0.427
180.153.113.141	4339	0.402
203.211.130.242	4308	0.400
94.102.49.37	3852	0.357
188.138.33.215	3840	0.356
Total:	188532	7

Number of unique hits: 1076950

5.5 Source Port

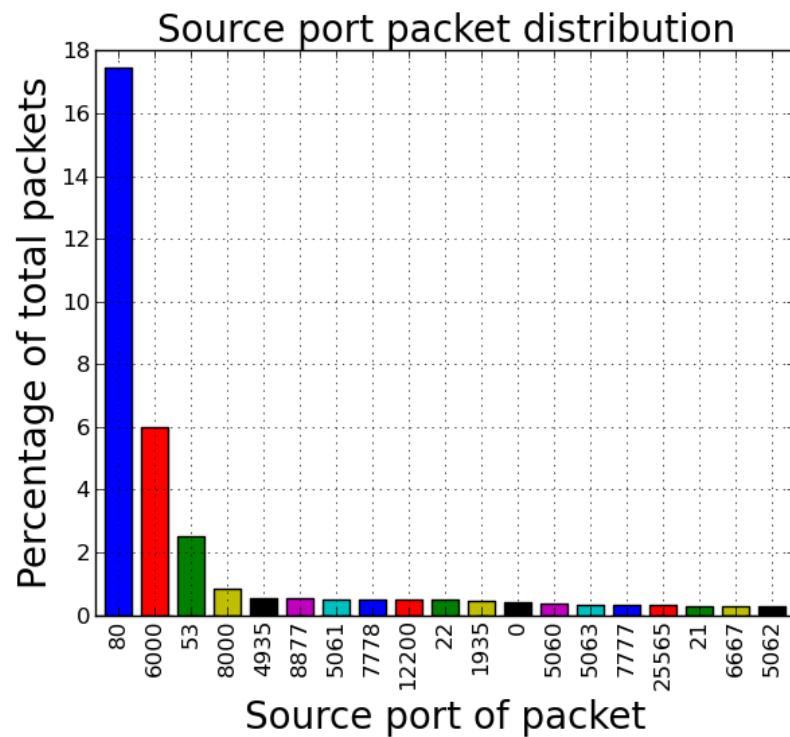


Figure 29: Destination IP packet count

Table 29: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
80	188171	17.47
6000	64599	5.998
53	27122	2.518
8000	9040	0.839
4935	6049	0.561
8877	5941	0.551
5061	5374	0.499
7778	5359	0.497
12200	5302	0.492
22	5268	0.489
1935	4886	0.453
0	4387	0.407
5060	4081	0.378
5063	3584	0.332
7777	3440	0.319
25565	3435	0.318
21	3229	0.299
6667	3081	0.286
5062	2978	0.276
Total:	355326	24

Number of unique hits: 1076950

5.6 Geolocation results of source IPs

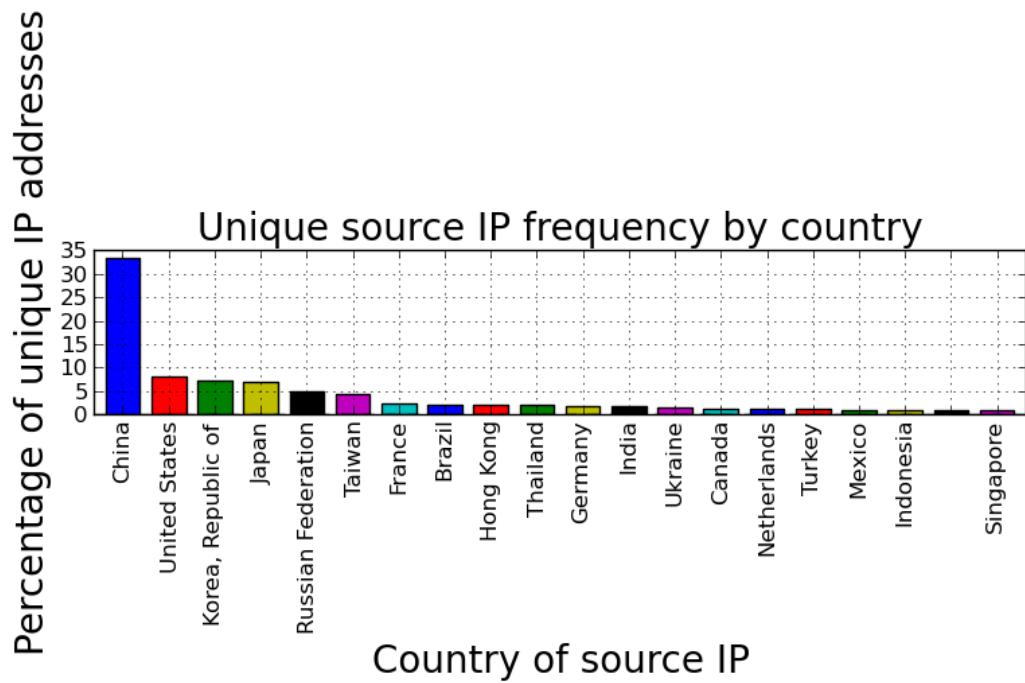


Figure 30: Destination IP packet count

Table 30: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	23170	33.34
United States	5538	7.969
Korea, Republic of	4971	7.153
Japan	4856	6.987
Russian Federation	3498	5.033
Taiwan	3137	4.514
France	1667	2.398
Brazil	1452	2.089
Hong Kong	1439	2.070
Thailand	1425	2.050
Germany	1320	1.899
India	1269	1.826
Ukraine	1131	1.627
Canada	813	1.169
Netherlands	806	1.159
Turkey	766	1.102
Mexico	681	0.979
Indonesia	640	0.920
	580	0.834
Singapore	561	0.807
Total:	59720	76

Number of unique hits: 69492

6 12/2013

6.1 Destination IP

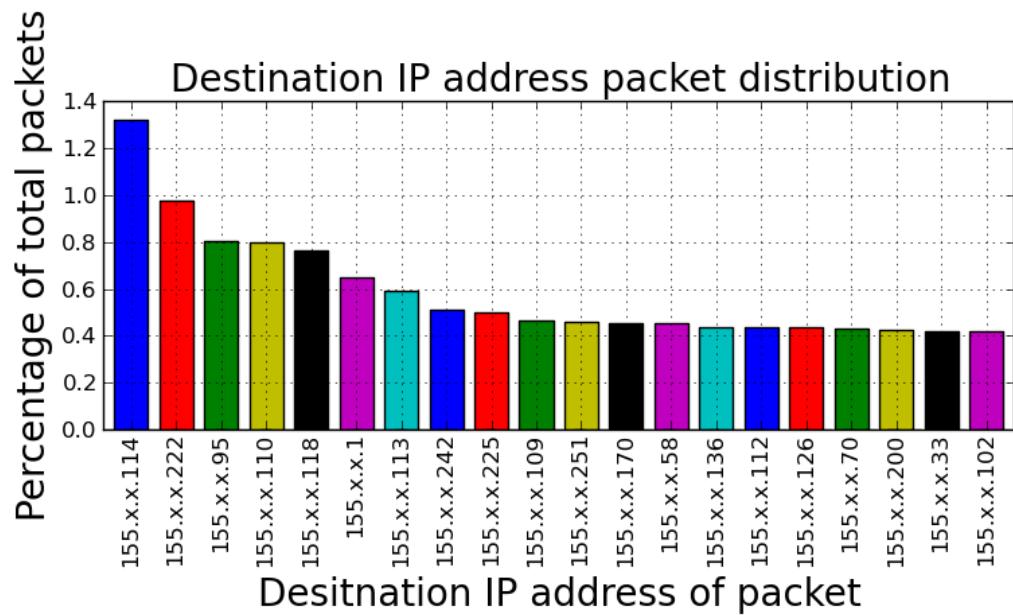


Figure 31: Destination IP packet count

Table 31: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.114	15932	1.321
155.x.x.222	11756	0.975
155.x.x.95	9694	0.804
155.x.x.110	9638	0.799
155.x.x.118	9223	0.765
155.x.x.1	7812	0.648
155.x.x.113	7112	0.590
155.x.x.242	6134	0.508
155.x.x.225	6028	0.500
155.x.x.109	5599	0.464
155.x.x.251	5542	0.459
155.x.x.170	5473	0.454
155.x.x.58	5464	0.453
155.x.x.136	5289	0.438
155.x.x.112	5282	0.438
155.x.x.126	5274	0.437
155.x.x.70	5183	0.430
155.x.x.200	5113	0.424
155.x.x.33	5058	0.419
155.x.x.102	5051	0.419
Total:	141657	1

Number of unique hits: 1205322

6.2 Destination Port TCP

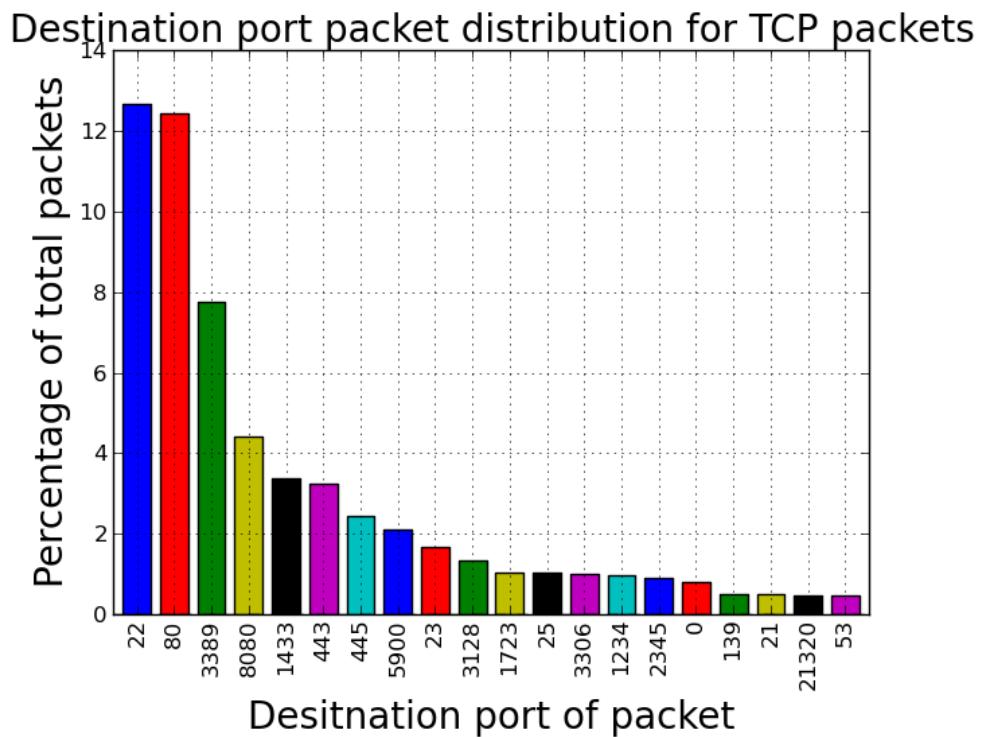


Figure 32: Destination IP packet count

Table 32: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
22	99002	12.67
80	97104	12.42
3389	60621	7.759
8080	34482	4.413
1433	26519	3.394
443	25478	3.261
445	19036	2.436
5900	16537	2.116
23	13146	1.682
3128	10480	1.341
1723	8199	1.049
25	8192	1.048
3306	7962	1.019
1234	7713	0.987
2345	7055	0.903
0	6330	0.810
139	4014	0.513
21	3946	0.505
21320	3662	0.468
53	3599	0.460
Total:	463077	50

Number of unique hits: 781269

6.3 Destination Port UDP

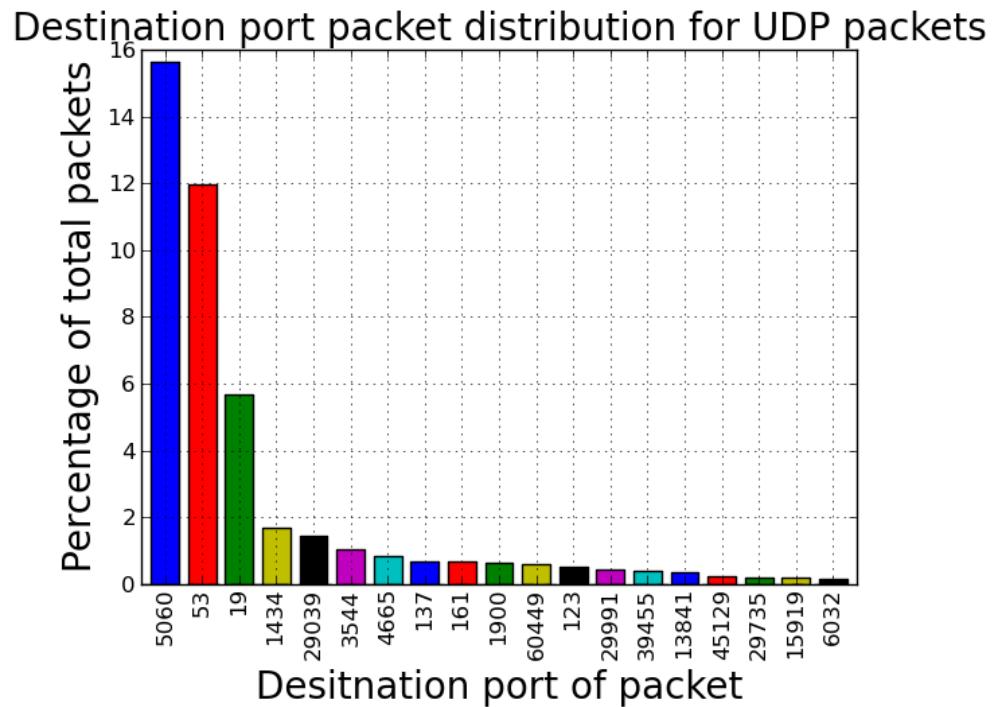


Figure 33: Destination IP packet count

Table 33: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
5060	66352	15.64
53	50816	11.98
19	24137	5.691
1434	7172	1.691
29039	6038	1.423
3544	4392	1.035
4665	3519	0.829
137	2945	0.694
161	2940	0.693
1900	2766	0.652
60449	2552	0.601
123	2212	0.521
29991	1828	0.431
39455	1624	0.382
13841	1470	0.346
45129	918	0.216
29735	767	0.180
15919	730	0.172
6032	722	0.170
Total:	183900	34

Number of unique hits: 424053

6.4 Source IP

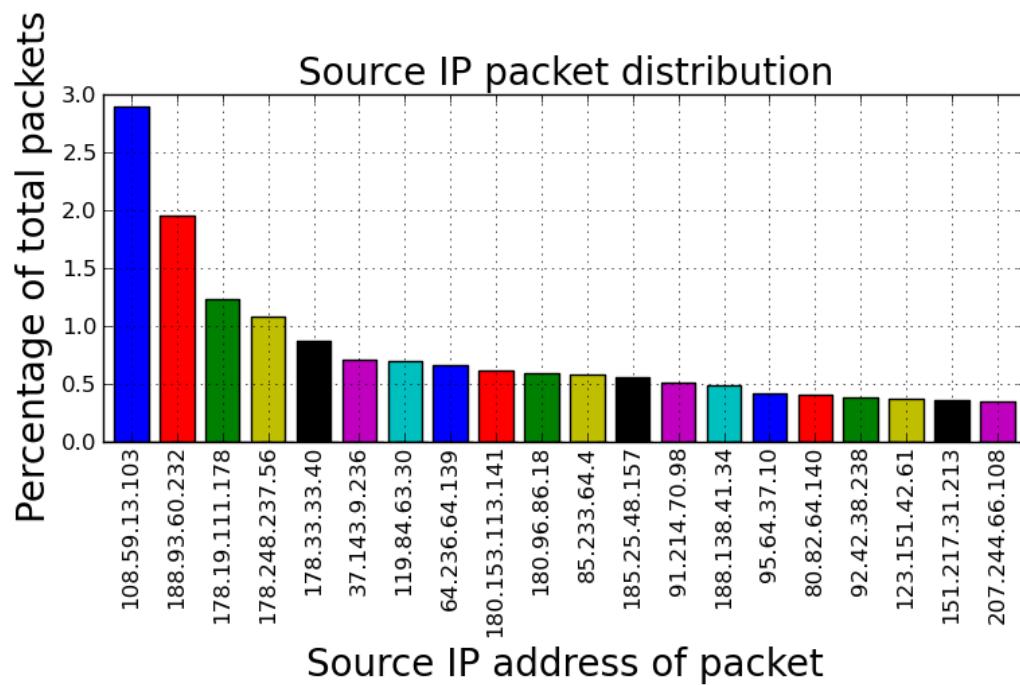


Figure 34: Destination IP packet count

Table 34: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
108.59.13.103	34895	2.895
188.93.60.232	23505	1.950
178.19.111.178	14873	1.233
178.248.237.56	13056	1.083
178.33.33.40	10453	0.867
37.143.9.236	8446	0.700
119.84.63.30	8423	0.698
64.236.64.139	7927	0.657
180.153.113.141	7423	0.615
180.96.86.18	7110	0.589
85.233.64.4	6912	0.573
185.25.48.157	6656	0.552
91.214.70.98	6179	0.512
188.138.41.34	5888	0.488
95.64.37.10	4964	0.411
80.82.64.140	4824	0.400
92.42.38.238	4522	0.375
123.151.42.61	4471	0.370
151.217.31.213	4255	0.353
207.244.66.108	4094	0.339
Total:	188876	5

Number of unique hits: 1205322

6.5 Source Port

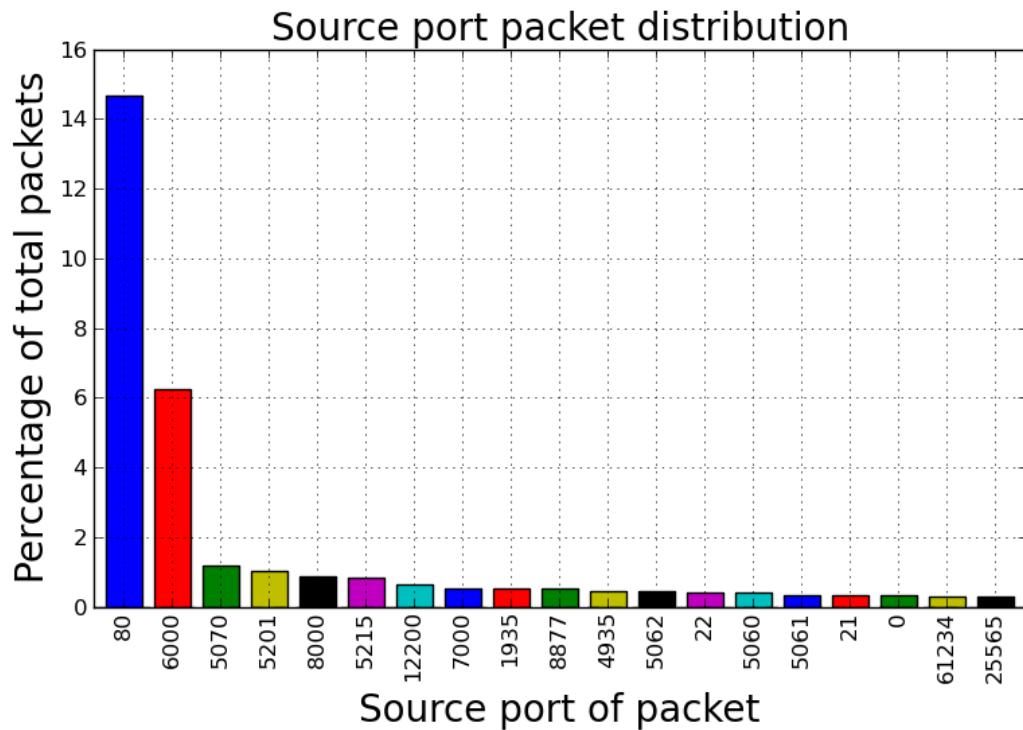


Figure 35: Destination IP packet count

Table 35: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
80	176856	14.67
6000	75087	6.229
5070	14280	1.184
5201	12212	1.013
8000	10556	0.875
5215	9951	0.825
12200	7961	0.660
7000	6383	0.529
1935	6341	0.526
8877	6222	0.516
4935	5492	0.455
5062	5348	0.443
22	5135	0.426
5060	5037	0.417
5061	4061	0.336
21	3842	0.318
0	3815	0.316
61234	3637	0.301
25565	3637	0.301
Total:	365853	22

Number of unique hits: 1205322

6.6 Geolocation results of source IPs

Percentage of unique IP addresses:

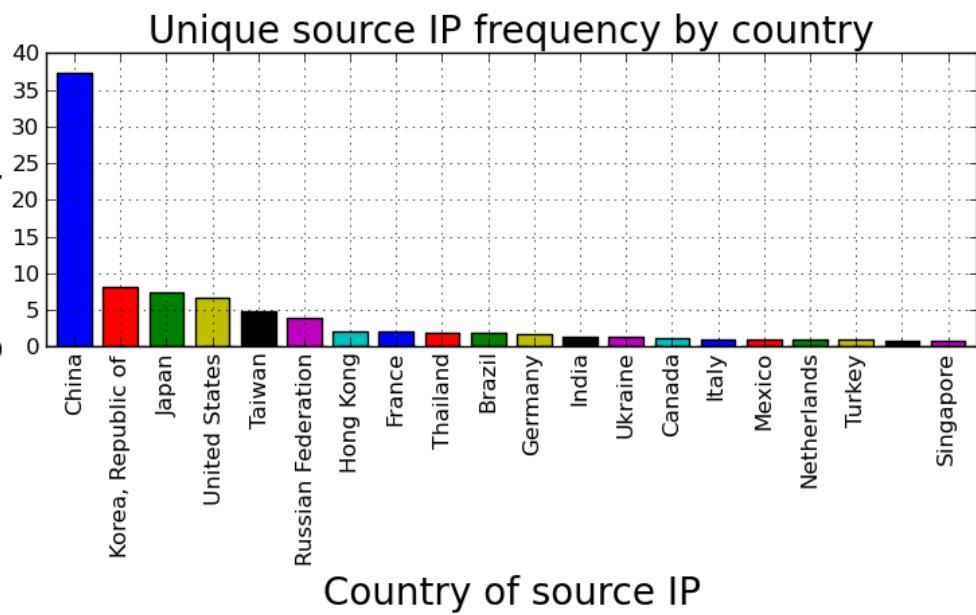


Figure 36: Destination IP packet count

Table 36: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	28460	37.31
Korea, Republic of	6172	8.093
Japan	5567	7.299
United States	5050	6.621
Taiwan	3699	4.850
Russian Federation	3003	3.937
Hong Kong	1575	2.065
France	1543	2.023
Thailand	1467	1.923
Brazil	1380	1.809
Germany	1258	1.649
India	990	1.298
Ukraine	960	1.258
Canada	941	1.233
Italy	738	0.967
Mexico	732	0.959
Netherlands	728	0.954
Turkey	694	0.910
	645	0.845
Singapore	612	0.802
Total:	66214	75

Number of unique hits: 76261

7 01/2014

7.1 Destination IP

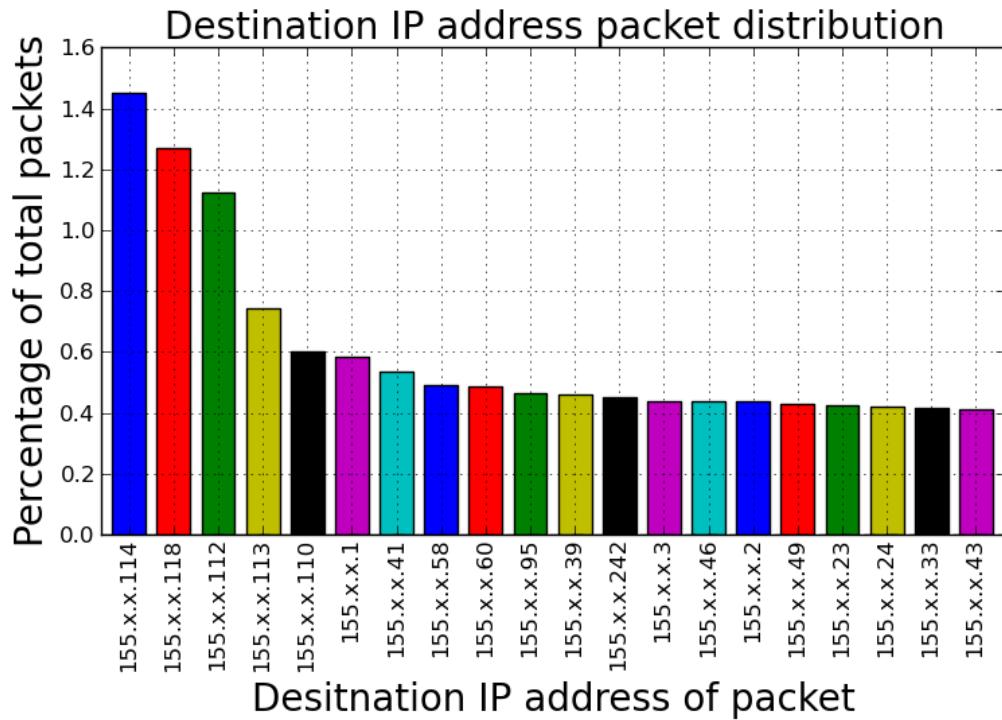


Figure 37: Destination IP packet count

Table 37: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.114	18074	1.449
155.x.x.118	15856	1.271
155.x.x.112	14033	1.125
155.x.x.113	9274	0.743
155.x.x.110	7500	0.601
155.x.x.1	7269	0.582
155.x.x.41	6679	0.535
155.x.x.58	6103	0.489
155.x.x.60	6068	0.486
155.x.x.95	5793	0.464
155.x.x.39	5723	0.459
155.x.x.242	5601	0.449
155.x.x.3	5487	0.440
155.x.x.46	5450	0.437
155.x.x.2	5450	0.437
155.x.x.49	5337	0.428
155.x.x.23	5285	0.423
155.x.x.24	5247	0.420
155.x.x.33	5212	0.418
155.x.x.43	5140	0.412
Total:	150581	3

Number of unique hits: 1246840

7.2 Destination Port TCP

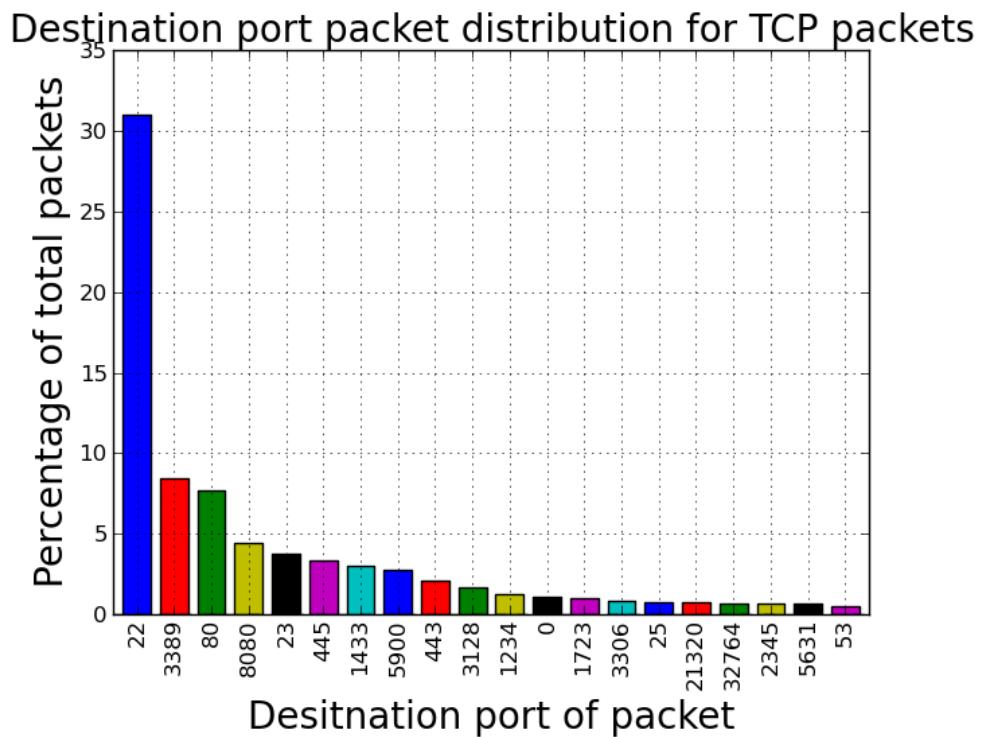


Figure 38: Destination IP packet count

Table 38: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
22	264676	31.03
3389	71931	8.434
80	65780	7.713
8080	37653	4.415
23	31694	3.716
445	28726	3.368
1433	25785	3.023
5900	23809	2.791
443	17653	2.069
3128	14177	1.662
1234	10631	1.246
0	8991	1.054
1723	8189	0.960
3306	7212	0.845
25	6466	0.758
21320	6371	0.747
32764	5975	0.700
2345	5580	0.654
5631	5522	0.647
53	4341	0.509
Total:	651162	66

Number of unique hits: 852821

7.3 Destination Port UDP

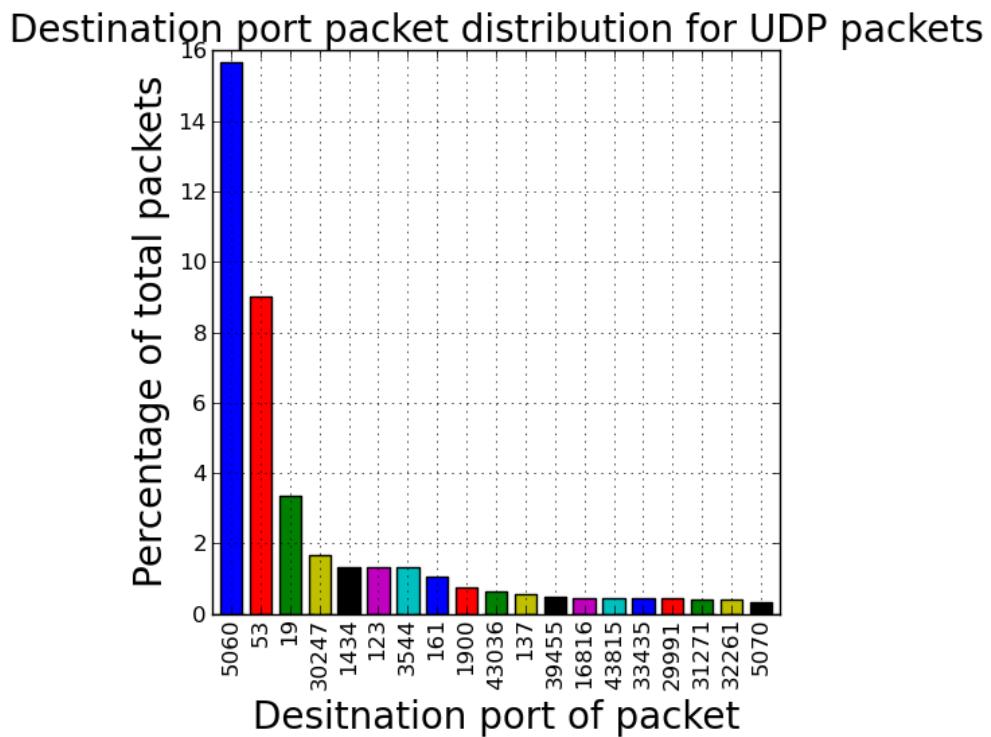


Figure 39: Destination IP packet count

Table 39: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
5060	61684	15.65
53	35517	9.014
19	13258	3.364
30247	6529	1.657
1434	5238	1.329
123	5203	1.320
3544	5149	1.306
161	4108	1.042
1900	2898	0.735
43036	2451	0.622
137	2202	0.558
39455	1942	0.492
16816	1800	0.456
43815	1764	0.447
33435	1746	0.443
29991	1675	0.425
31271	1641	0.416
32261	1524	0.386
5070	1280	0.324
Total:	157609	32

Number of unique hits: 394019

7.4 Source IP

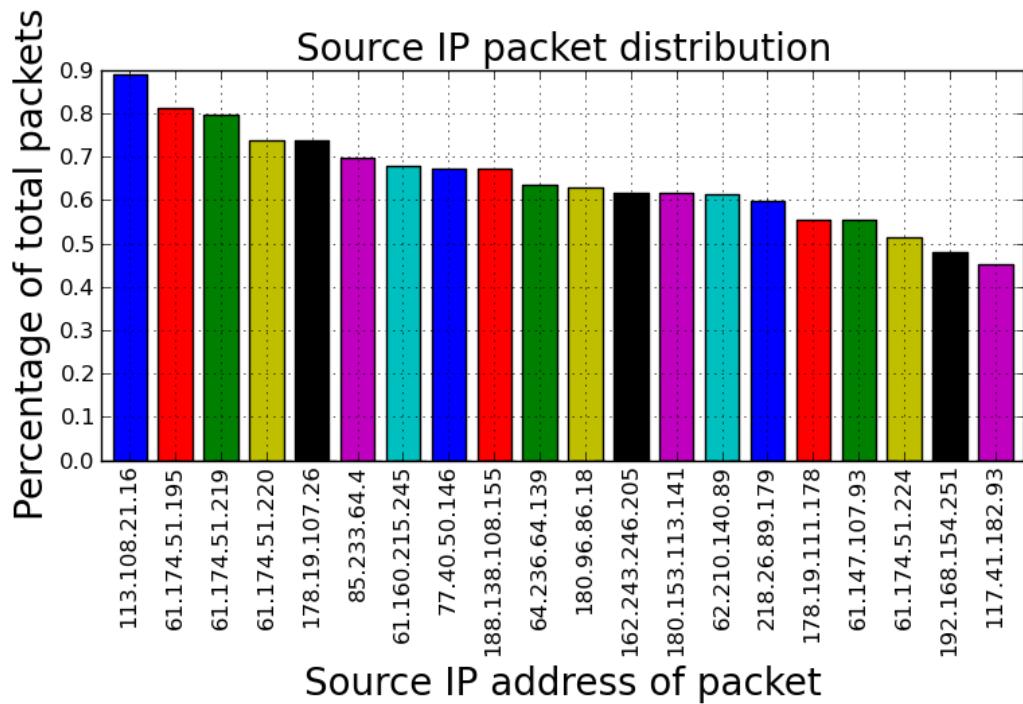


Figure 40: Destination IP packet count

Table 40: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
113.108.21.16	11087	0.889
61.174.51.195	10128	0.812
61.174.51.219	9939	0.797
61.174.51.220	9215	0.739
178.19.107.26	9211	0.738
85.233.64.4	8704	0.698
61.160.215.245	8447	0.677
77.40.50.146	8387	0.672
188.138.108.155	8387	0.672
64.236.64.139	7934	0.636
180.96.86.18	7864	0.630
162.243.246.205	7680	0.615
180.153.113.141	7677	0.615
62.210.140.89	7660	0.614
218.26.89.179	7470	0.599
178.19.111.178	6913	0.554
61.147.107.93	6908	0.554
61.174.51.224	6398	0.513
192.168.154.251	5981	0.479
117.41.182.93	5632	0.451
Total:	161622	0

Number of unique hits: 1246840

7.5 Source Port

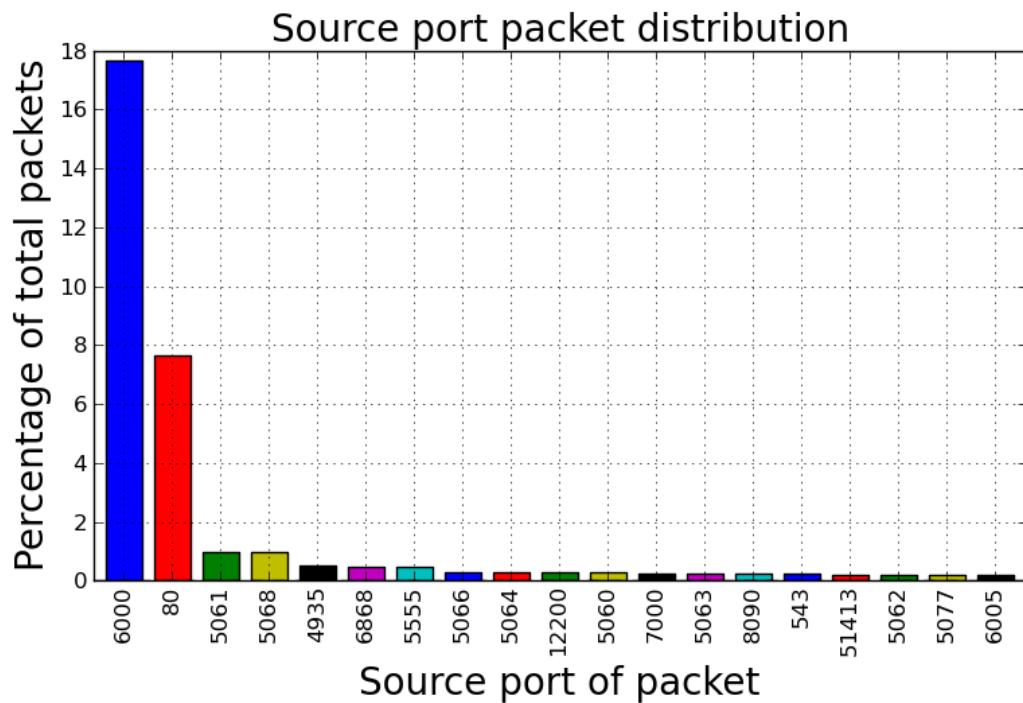


Figure 41: Destination IP packet count

Table 41: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
6000	220273	17.66
80	95660	7.672
5061	12224	0.980
5068	11996	0.962
4935	6276	0.503
6868	6134	0.491
5555	6074	0.487
5066	3583	0.287
5064	3578	0.286
12200	3570	0.286
5060	3444	0.276
7000	3314	0.265
5063	3079	0.246
8090	2966	0.237
543	2796	0.224
51413	2774	0.222
5062	2765	0.221
5077	2759	0.221
6005	2664	0.213
Total:	395929	24

Number of unique hits: 1246840

7.6 Geolocation results of source IPs

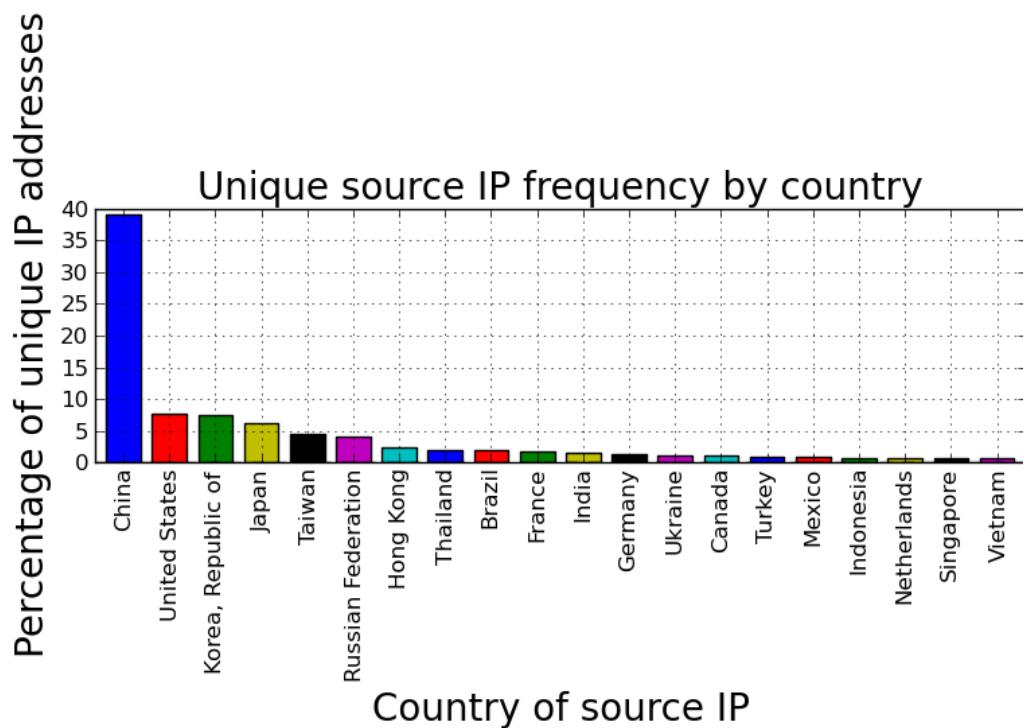


Figure 42: Destination IP packet count

Table 42: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	32392	39.01
United States	6434	7.748
Korea, Republic of	6131	7.383
Japan	5223	6.290
Taiwan	3711	4.469
Russian Federation	3438	4.140
Hong Kong	2018	2.430
Thailand	1630	1.963
Brazil	1605	1.932
France	1488	1.792
India	1218	1.466
Germany	1133	1.364
Ukraine	996	1.199
Canada	843	1.015
Turkey	811	0.976
Mexico	662	0.797
Indonesia	654	0.787
Netherlands	643	0.774
Singapore	613	0.738
Vietnam	575	0.692
Total:	72218	76

Number of unique hits: 83033

8 02/2014

8.1 Destination IP

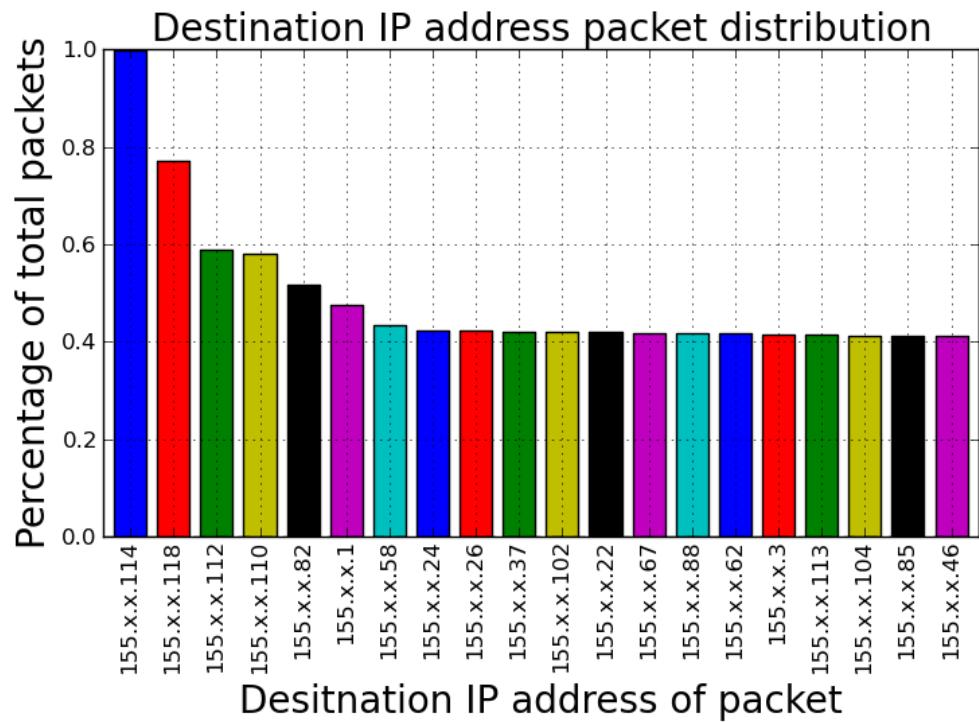


Figure 43: Destination IP packet count

Table 43: Destination IP packets

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.114	6628	0.997
155.x.x.118	5121	0.770
155.x.x.112	3919	0.589
155.x.x.110	3860	0.581
155.x.x.82	3444	0.518
155.x.x.1	3161	0.475
155.x.x.58	2886	0.434
155.x.x.24	2815	0.423
155.x.x.26	2814	0.423
155.x.x.37	2794	0.420
155.x.x.102	2790	0.419
155.x.x.22	2785	0.419
155.x.x.67	2779	0.418
155.x.x.88	2774	0.417
155.x.x.62	2771	0.417
155.x.x.3	2761	0.415
155.x.x.113	2759	0.415
155.x.x.104	2745	0.413
155.x.x.85	2744	0.413
155.x.x.46	2742	0.412
Total:	65092	0

Number of unique hits: 664355

8.2 Destination Port TCP

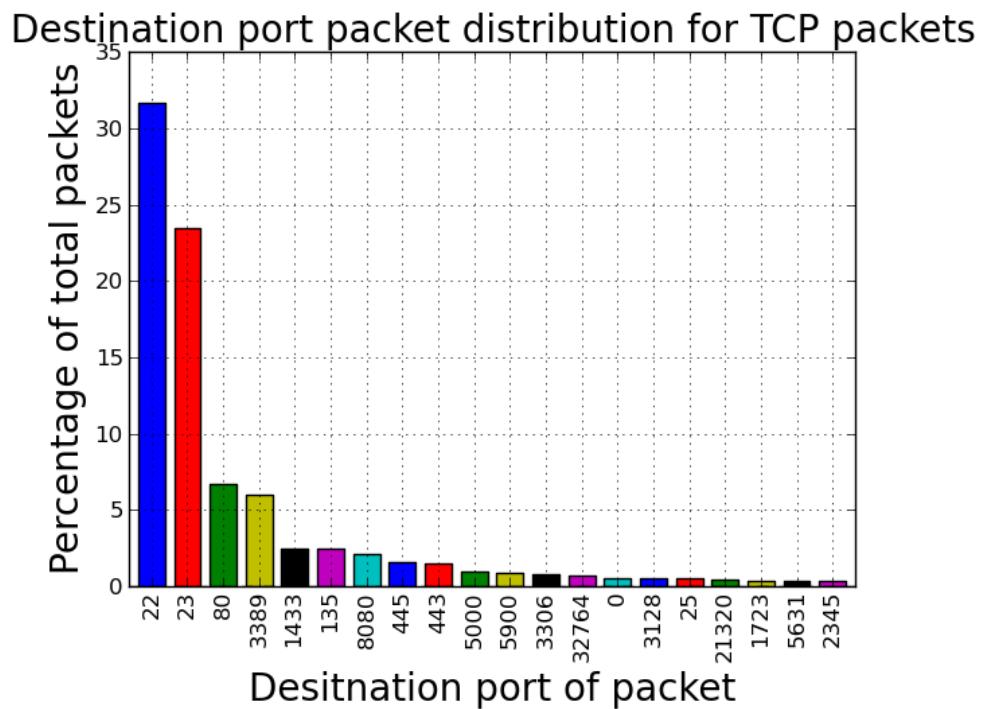


Figure 44: Destination IP packet count

Table 44: Destination Port TCP packets

Destination Port TCP	Number of packets recorded	Percentage of total packets
22	160695	31.63
23	119166	23.45
80	34218	6.735
3389	30460	5.996
1433	12539	2.468
135	12494	2.459
8080	10753	2.116
445	8072	1.589
443	7710	1.517
5000	5040	0.992
5900	4342	0.854
3306	4209	0.828
32764	3330	0.655
0	2762	0.543
3128	2690	0.529
25	2456	0.483
21320	2282	0.449
1723	1792	0.352
5631	1783	0.350
2345	1723	0.339
Total:	428516	73

Number of unique hits: 507989

8.3 Destination Port UDP

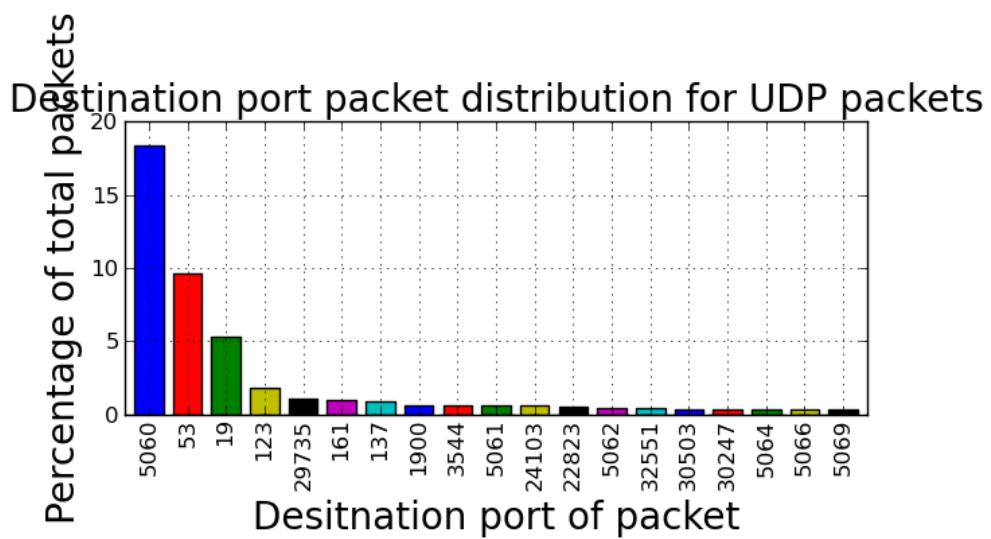


Figure 45: Destination IP packet count

Table 45: Destination Port UDP packets

Destination Port UDP	Number of packets recorded	Percentage of total packets
5060	28731	18.37
53	15076	9.641
19	8237	5.267
123	2800	1.790
29735	1744	1.115
161	1592	1.018
137	1339	0.856
1900	1014	0.648
3544	1002	0.640
5061	969	0.619
24103	910	0.581
22823	777	0.496
5062	721	0.461
32551	702	0.448
30503	540	0.345
30247	514	0.328
5064	511	0.326
5066	511	0.326
5069	511	0.326
Total:	68201	35

Number of unique hits: 156366

8.4 Source IP

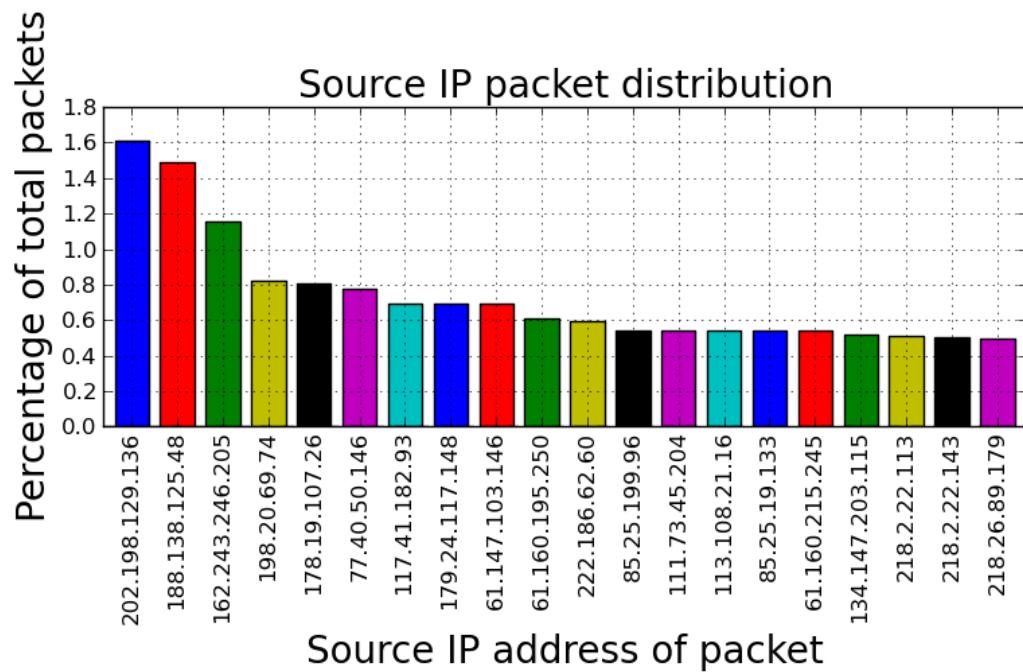


Figure 46: Destination IP packet count

Table 46: Source IP packets

Source IP	Number of packets recorded	Percentage of total packets
202.198.129.136	10703	1.611
188.138.125.48	9923	1.493
162.243.246.205	7680	1.156
198.20.69.74	5483	0.825
178.19.107.26	5360	0.806
77.40.50.146	5168	0.777
117.41.182.93	4606	0.693
179.24.117.148	4602	0.692
61.147.103.146	4598	0.692
61.160.195.250	4052	0.609
222.186.62.60	3970	0.597
85.25.199.96	3613	0.543
111.73.45.204	3601	0.542
113.108.21.16	3599	0.541
85.25.19.133	3584	0.539
61.160.215.245	3582	0.539
134.147.203.115	3434	0.516
218.2.22.113	3404	0.512
218.2.22.143	3372	0.507
218.26.89.179	3280	0.493
Total:	97614	3

Number of unique hits: 664355

8.5 Source Port

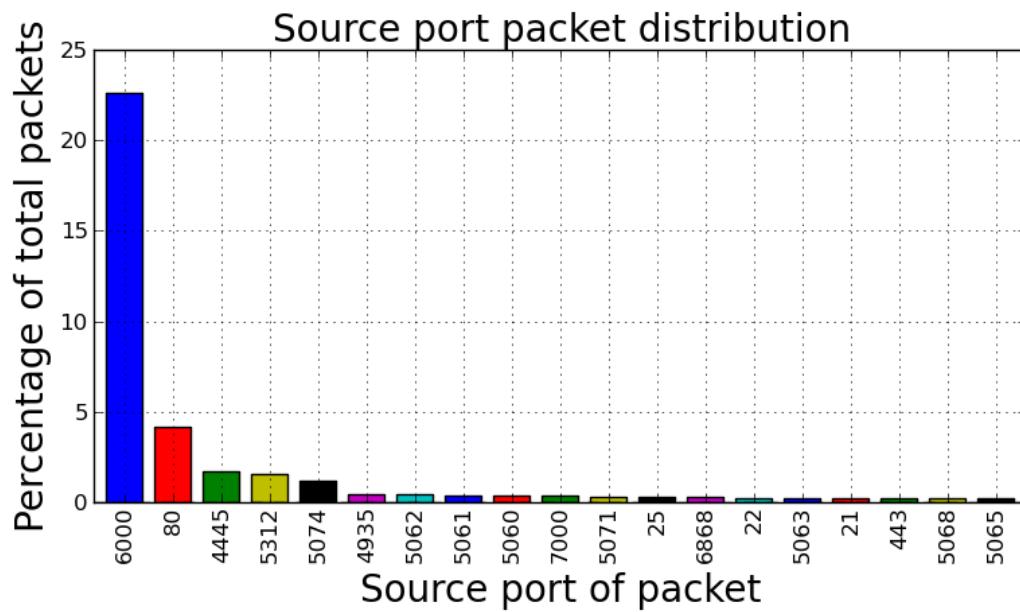


Figure 47: Destination IP packet count

Table 47: Source Port packets

Source Port	Number of packets recorded	Percentage of total packets
6000	150674	22.67
80	27296	4.108
4445	10972	1.651
5312	9925	1.493
5074	7680	1.156
4935	2873	0.432
5062	2557	0.384
5061	2261	0.340
5060	2176	0.327
7000	2068	0.311
5071	1792	0.269
25	1666	0.250
6868	1498	0.225
22	1369	0.206
5063	1280	0.192
21	1133	0.170
443	1117	0.168
5068	1029	0.154
5065	1025	0.154
Total:	230391	29

Number of unique hits: 664355

8.6 Geolocation results of source IPs

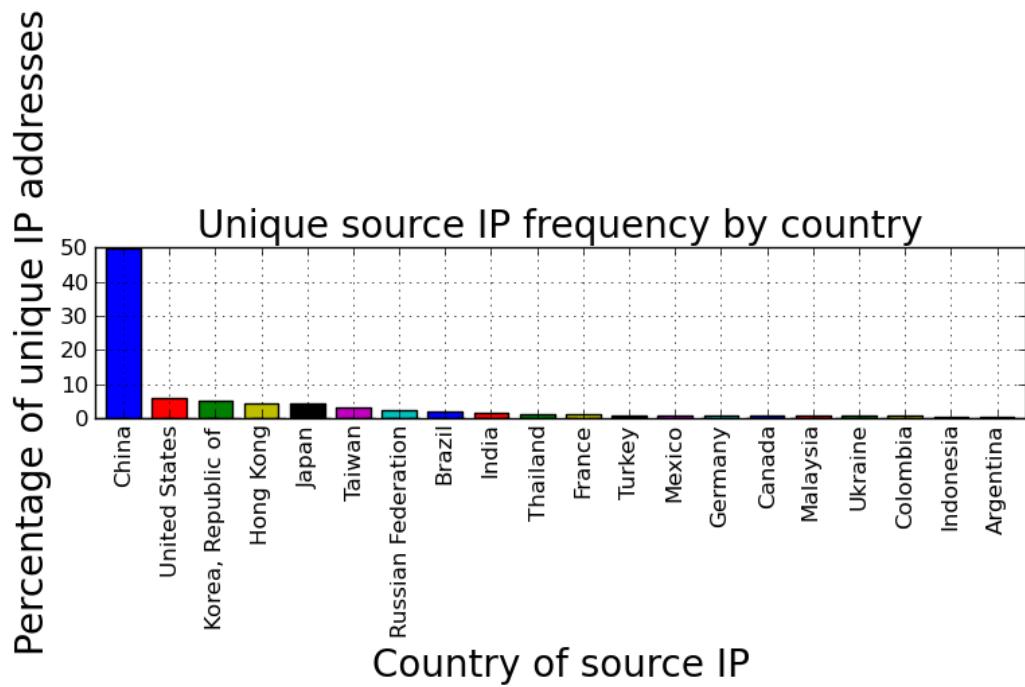


Figure 48: Destination IP packet count

Table 48: Geolocation results of source IPs packets

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	23639	49.72
United States	2801	5.891
Korea, Republic of	2473	5.201
Hong Kong	2106	4.429
Japan	2013	4.233
Taiwan	1498	3.150
Russian Federation	1141	2.399
Brazil	933	1.962
India	880	1.850
Thailand	661	1.390
France	582	1.224
Turkey	494	1.039
Mexico	439	0.923
Germany	426	0.896
Canada	384	0.807
Malaysia	366	0.769
Ukraine	352	0.740
Colombia	332	0.698
Indonesia	310	0.652
Argentina	286	0.601
Total:	42116	77

Number of unique hits: 47544

9 Entire Dataset

9.1 Destination IP

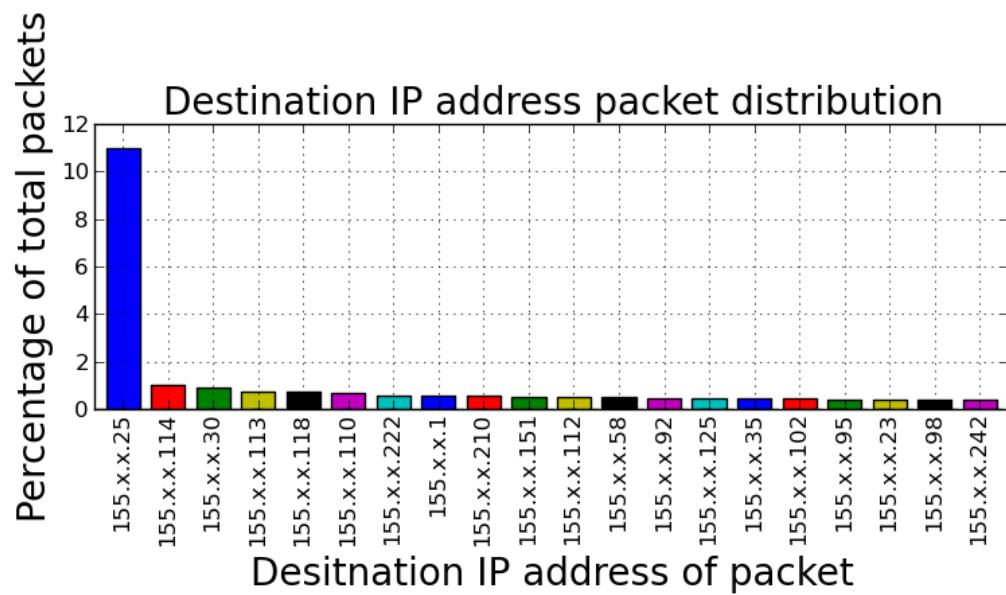


Figure 49: Destination IP packet count

Destination IP	Number of packets recorded	Percentage of total packets
155.x.x.25	1017157	10.98
155.x.x.114	94921	1.025
155.x.x.30	84967	0.917
155.x.x.113	69459	0.750
155.x.x.118	68582	0.740
155.x.x.110	63217	0.682
155.x.x.222	55263	0.597
155.x.x.1	54411	0.587
155.x.x.210	51836	0.559
155.x.x.151	49822	0.538
155.x.x.112	47758	0.515
155.x.x.58	44991	0.486
155.x.x.92	44124	0.476
155.x.x.125	41280	0.445
155.x.x.35	40729	0.439
155.x.x.102	39835	0.430
155.x.x.95	39074	0.422
155.x.x.23	37025	0.399
155.x.x.98	36869	0.398
155.x.x.242	36623	0.395
Total:	2017943	11
Number of unique hits:	9256741	

Table 49: Destination IP packets

9.2 Destination Port TCP

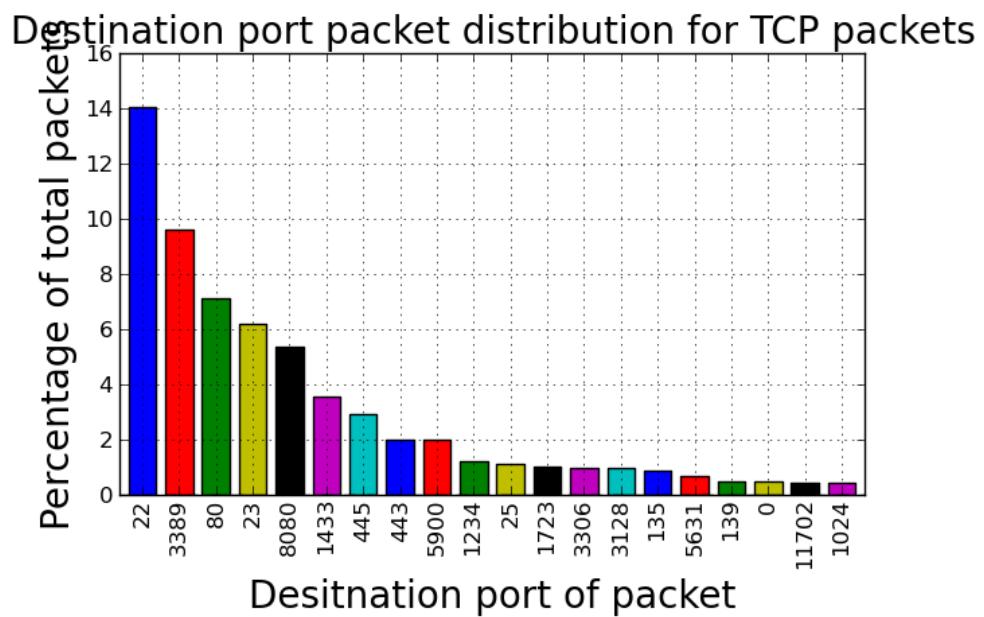


Figure 50: Destination IP packet count

Destination Port TCP	Number of packets recorded	Percentage of total packets
22	753999	14.08
3389	515411	9.624
80	381739	7.128
23	332224	6.203
8080	286188	5.344
1433	189615	3.540
445	155197	2.898
443	107228	2.002
5900	106041	1.980
1234	63541	1.186
25	59295	1.107
1723	54545	1.018
3306	50963	0.951
3128	50952	0.951
135	45709	0.853
5631	34756	0.649
139	26432	0.493
0	25075	0.468
11702	22567	0.421
1024	21546	0.402
Total:	3283023	52
Number of unique hits:	5355045	

Table 50: Destination Port TCP packets

9.3 Destination Port UDP

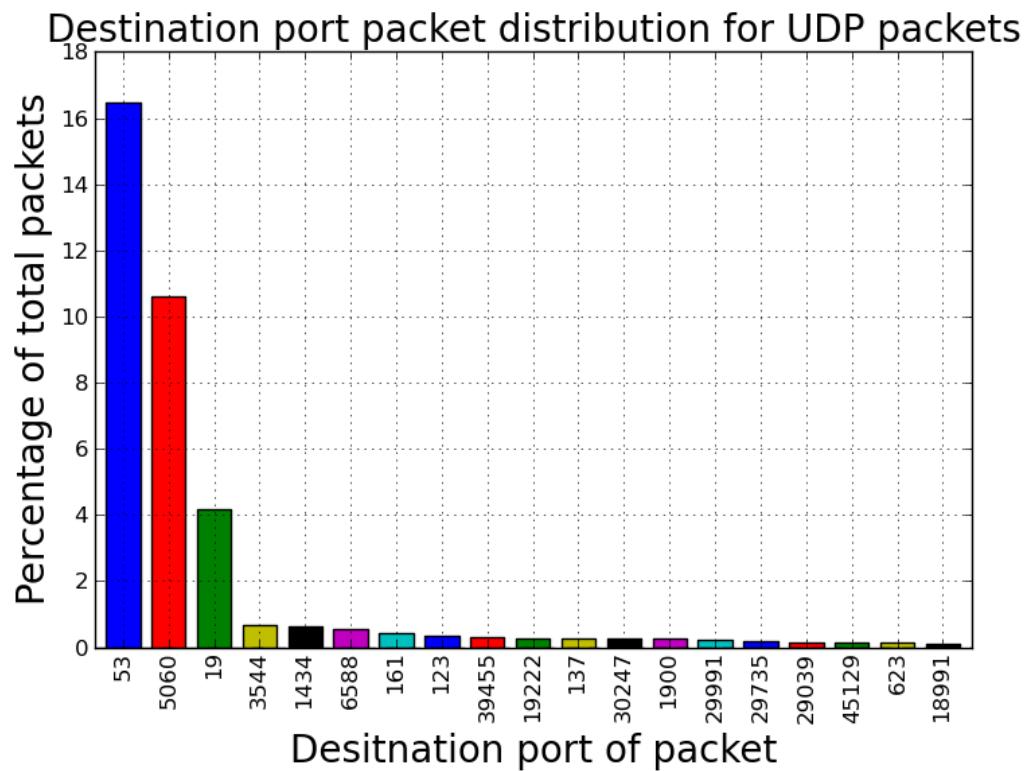


Figure 51: Destination IP packet count

Destination Port UDP	Number of packets recorded	Percentage of total packets
53	642608	16.46
5060	413325	10.59
19	162463	4.163
3544	26600	0.681
1434	24466	0.627
6588	21074	0.540
161	16080	0.412
123	13250	0.339
39455	12120	0.310
19222	11116	0.284
137	10987	0.281
30247	10692	0.274
1900	10096	0.258
29991	7967	0.204
29735	7407	0.189
29039	6046	0.154
45129	5349	0.137
623	4941	0.126
18991	3881	0.099
Total:	1410468	30
Number of unique hits:	3901696	

Table 51: Destination Port UDP packets

9.4 Source IP

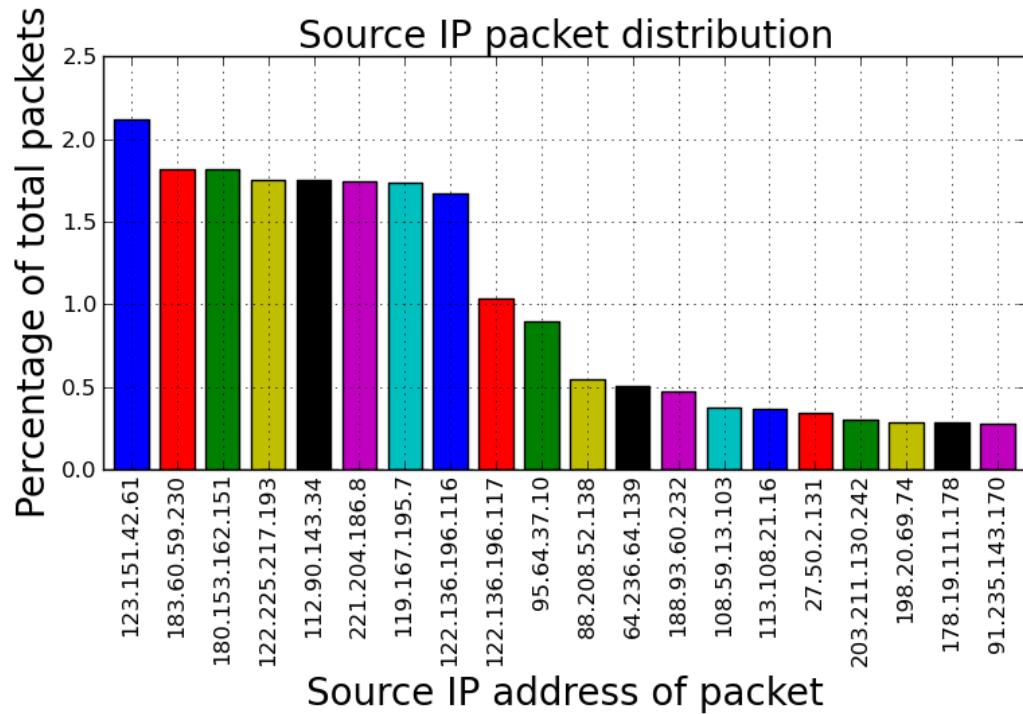


Figure 52: Destination IP packet count

Source IP	Number of packets recorded	Percentage of total packets
123.151.42.61	196594	2.123
183.60.59.230	168315	1.818
180.153.162.151	168048	1.815
122.225.217.193	162377	1.754
112.90.143.34	162332	1.753
221.204.186.8	161182	1.741
119.167.195.7	160546	1.734
122.136.196.116	154683	1.671
122.136.196.117	95925	1.036
95.64.37.10	83143	0.898
88.208.52.138	50611	0.546
64.236.64.139	46485	0.502
188.93.60.232	43890	0.474
108.59.13.103	34895	0.376
113.108.21.16	33841	0.365
27.50.2.131	31544	0.340
203.211.130.242	27909	0.301
198.20.69.74	26406	0.285
178.19.111.178	26389	0.285
91.235.143.170	25802	0.278
Total:	1860917	10
Number of unique hits:	9256741	

Table 52: Source IP packets

9.5 Source Port

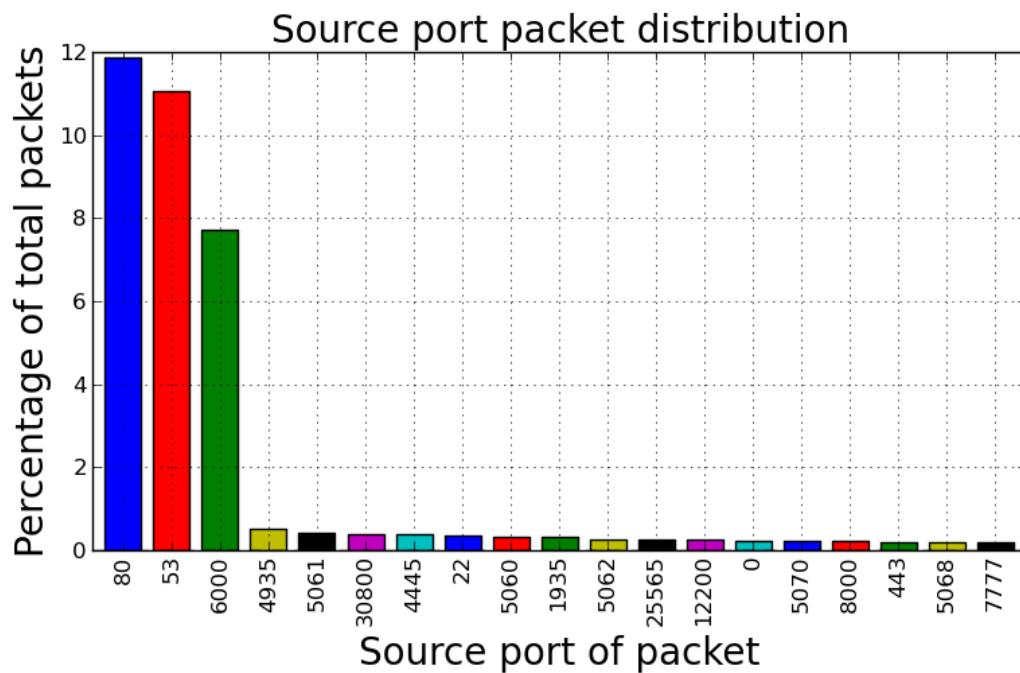


Figure 53: Destination IP packet count

Source Port	Number of packets recorded	Percentage of total packets
80	1098911	11.87
53	1024632	11.06
6000	713763	7.710
4935	48608	0.525
5061	38180	0.412
30800	37277	0.402
4445	35668	0.385
22	32254	0.348
5060	30500	0.329
1935	30471	0.329
5062	25903	0.279
25565	24987	0.269
12200	23546	0.254
0	22199	0.239
5070	22180	0.239
8000	20998	0.226
443	19811	0.214
5068	19692	0.212
7777	19570	0.211
Total:	3289150	29
Number of unique hits:	9256741	

Table 53: Source Port packets

9.6 Geolocation results of source IPs

Percentage of unique IP addresses:

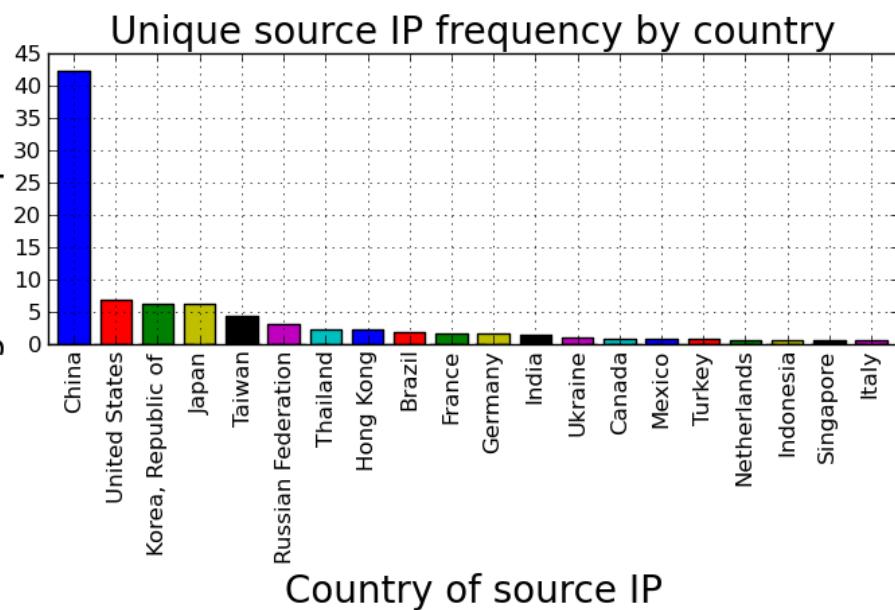


Figure 54: Destination IP packet count

Geolocation results of source IPs	Number of packets recorded	Percentage of total packets
China	188151	42.33
United States	30601	6.884
Korea, Republic of	28415	6.392
Japan	27733	6.239
Taiwan	19539	4.395
Russian Federation	14273	3.211
Thailand	10085	2.268
Hong Kong	10004	2.250
Brazil	8758	1.970
France	7637	1.718
Germany	7620	1.714
India	6873	1.546
Ukraine	4650	1.046
Canada	4393	0.988
Mexico	3996	0.899
Turkey	3676	0.827
Netherlands	3457	0.777
Indonesia	3402	0.765
Singapore	3370	0.758
Italy	3195	0.718
Total:	389828	76
Number of unique hits:	444484	

Table 54: Geolocation results of source IPs packets

9.7 Hilbert curve of darknet

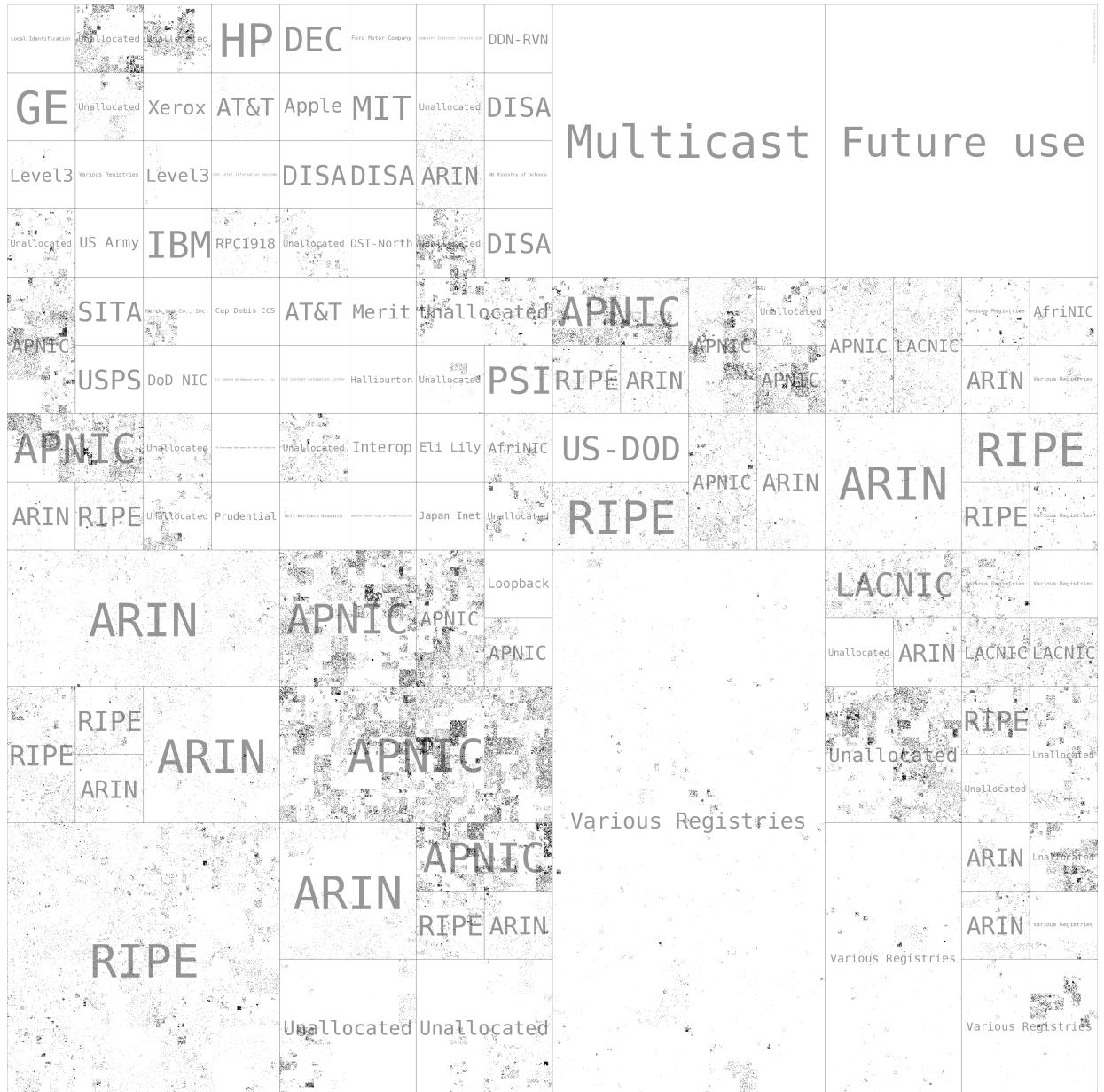


Figure 55: Source IP packet count