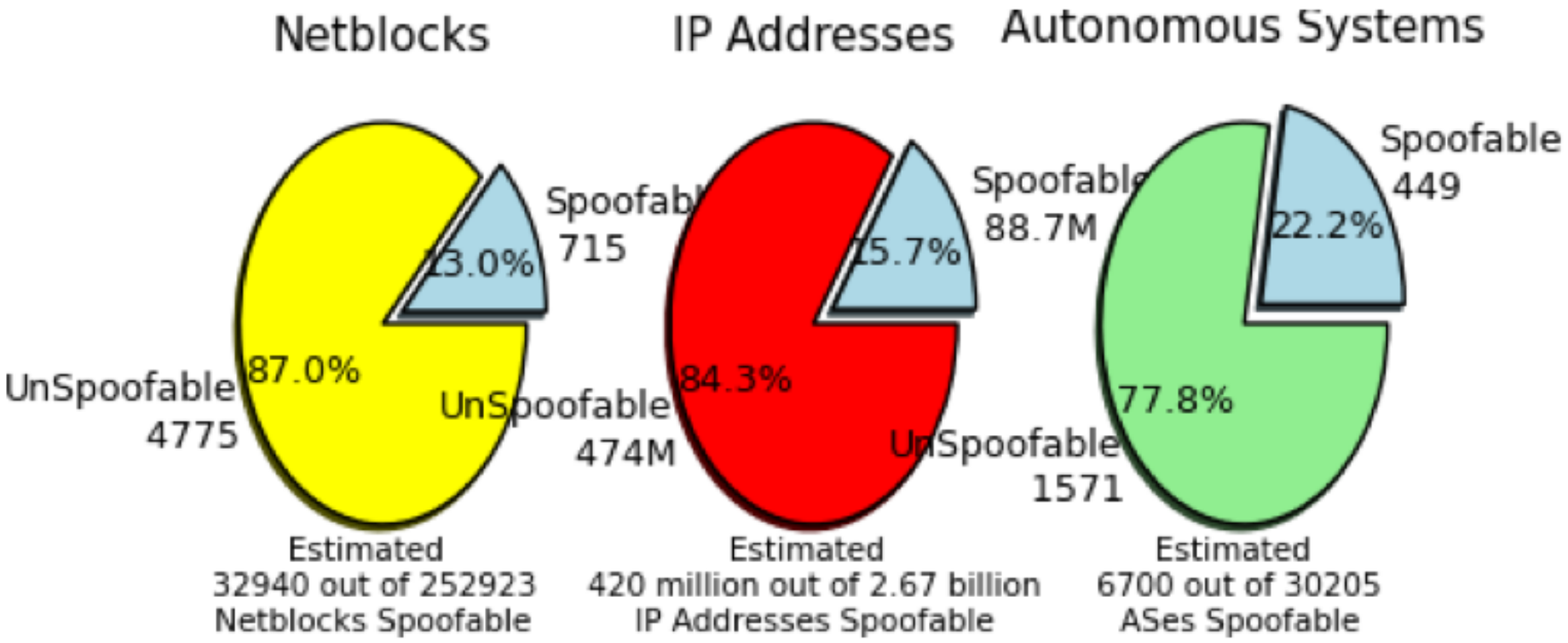
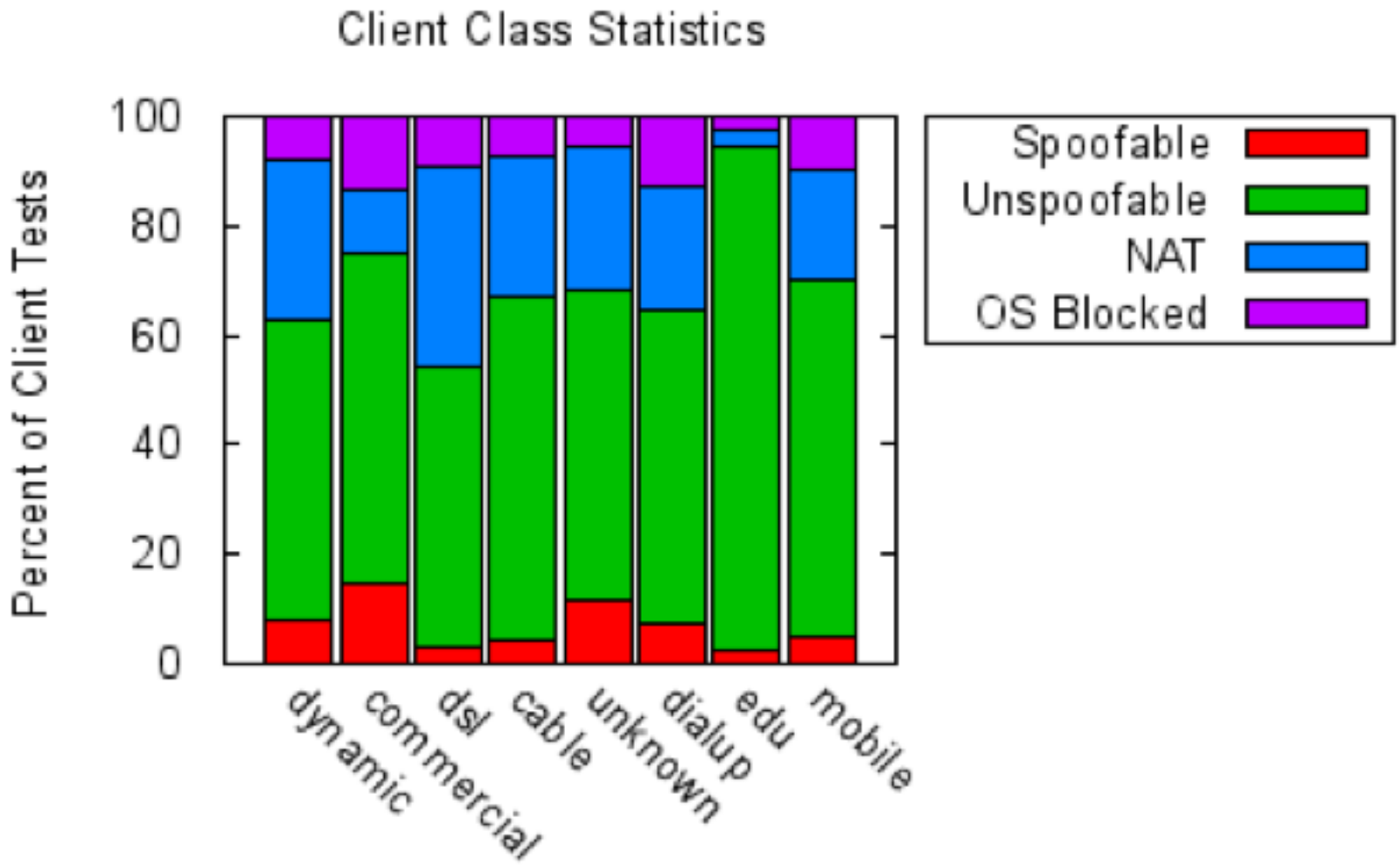
Kind	Trace-1				Trace-2				Trace-3			
	Attacks		Packets (k)		Attacks		Packets (k)		Attacks		Packets (k)	
Other	1,917	(46)	19,118	(38)	1,985	(51)	25,305	(32)	2,308	(49)	17,192	(28)
In-Addr Arpa	1,230	(29)	16,716	(33)	1,105	(28)	24,645	(32)	1,307	(27)	26,880	(43)
Broadband	394	(9.4)	9,869	(19)	275	(7.1)	13,054	(17)	375	(7.9)	8,513	(14)
Dial-Up	239	(5.7)	956	(1.9)	163	(4.2)	343	(0.44)	276	(5.8)	1,018	(1.6)
IRC Server	110	(2.6)	461	(0.91)	88	(2.3)	2,289	(2.9)	111	(2.3)	6,476	(10)
Nameserver	124	(3.0)	453	(0.89)	84	(2.2)	2,796	(3.6)	90	(1.9)	451	(0.72)
Router	58	(1.4)	2,698	(5.3)	76	(2.0)	4,055	(5.2)	125	(2.6)	682	(1.1)
Web Server	54	(1.3)	393	(0.77)	64	(1.7)	5,674	(7.3)	134	(2.8)	730	(1.2)
Mail Server	38	(0.91)	156	(0.31)	35	(0.90)	71	(0.09)	26	(0.55)	292	(0.47)
Firewall	9	(0.22)	7	(0.01)	3	(0.08)	3	(0.00)	2	(0.04)	1	(0.00)

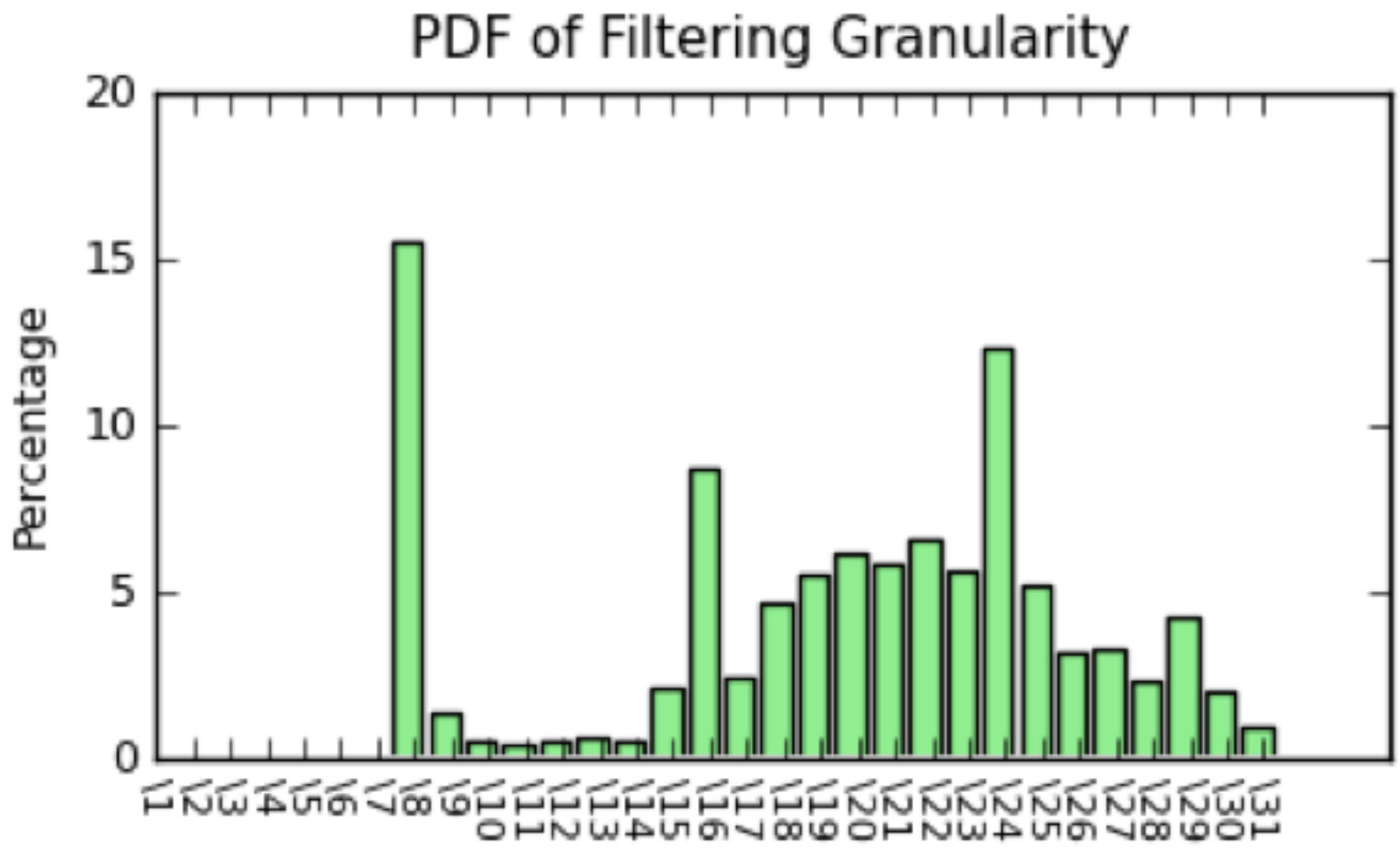
Table 6: Breakdown of victim hostnames.

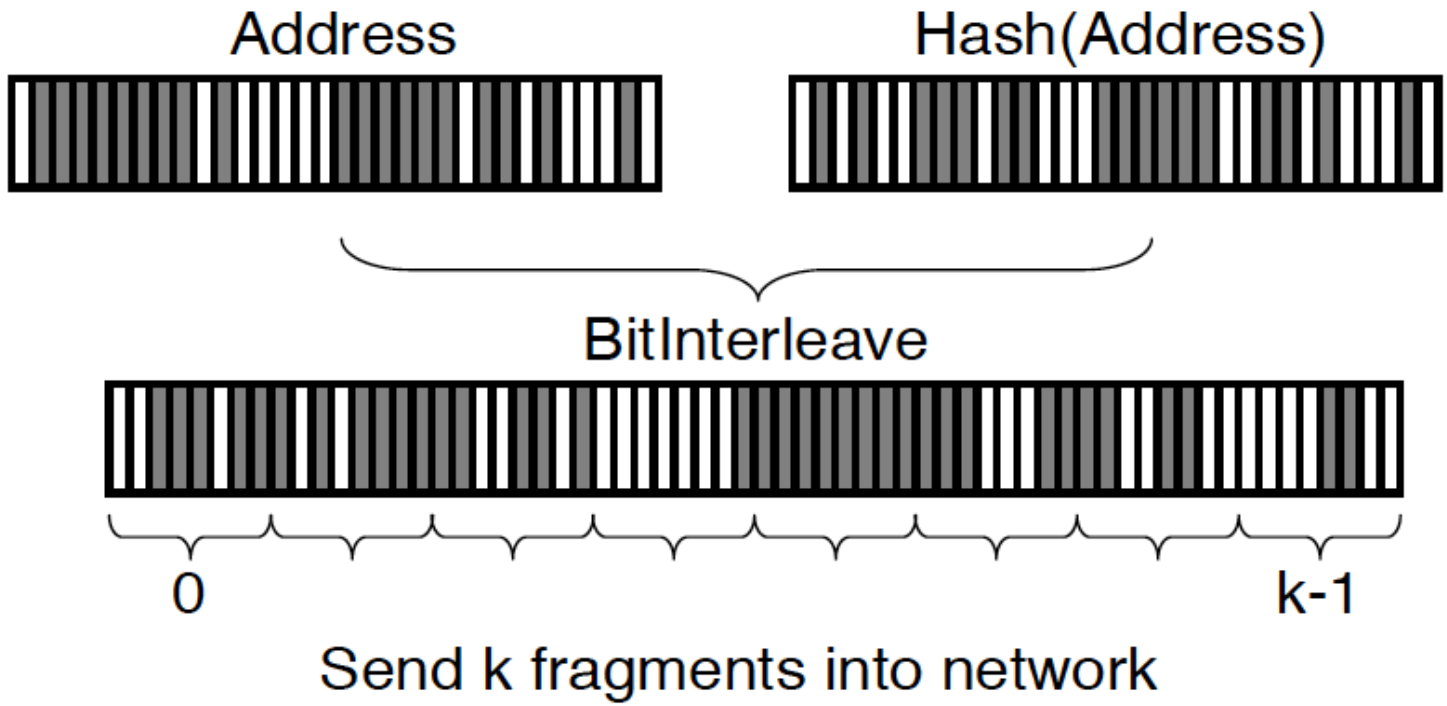
The majority of attacks are not classified by this scheme, either because they are not matched by our criteria (shown by "other"), or more likely, because there was no valid reverse DNS mapping (shown by "In-Addr Arpa").

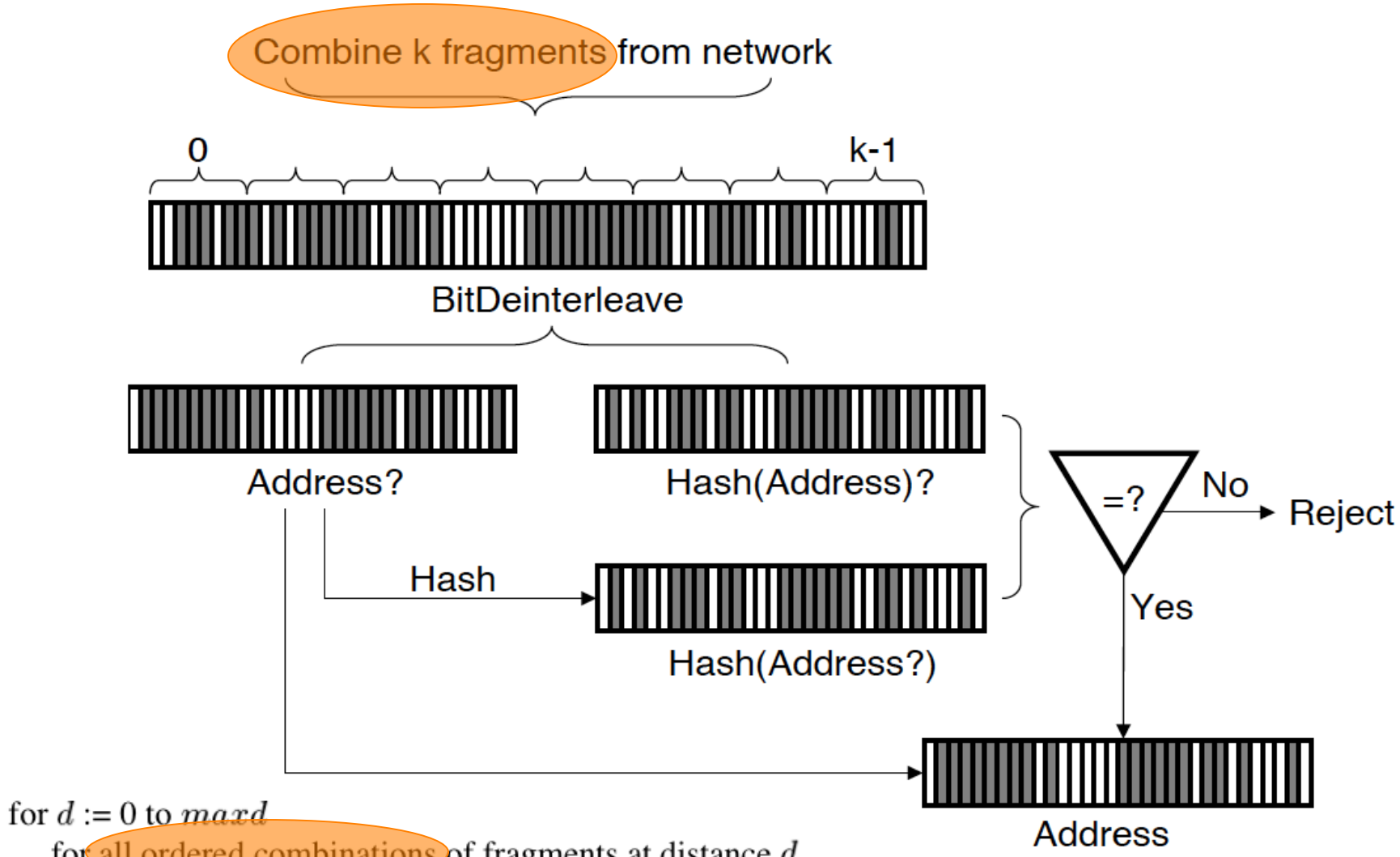
Current as of: *Tue Oct 25 16:03:26 EST 2011*
Total Tests: *26954*
Unique Client Sessions: *17822*




Client Class Statistics
Percent of Client Tests
100
80
60
40
20
0
dynamic
commercial
dsl
cable
unknown
dialup
edu
mobile
Spoofable
Unspoofable
NAT
OS Blocked

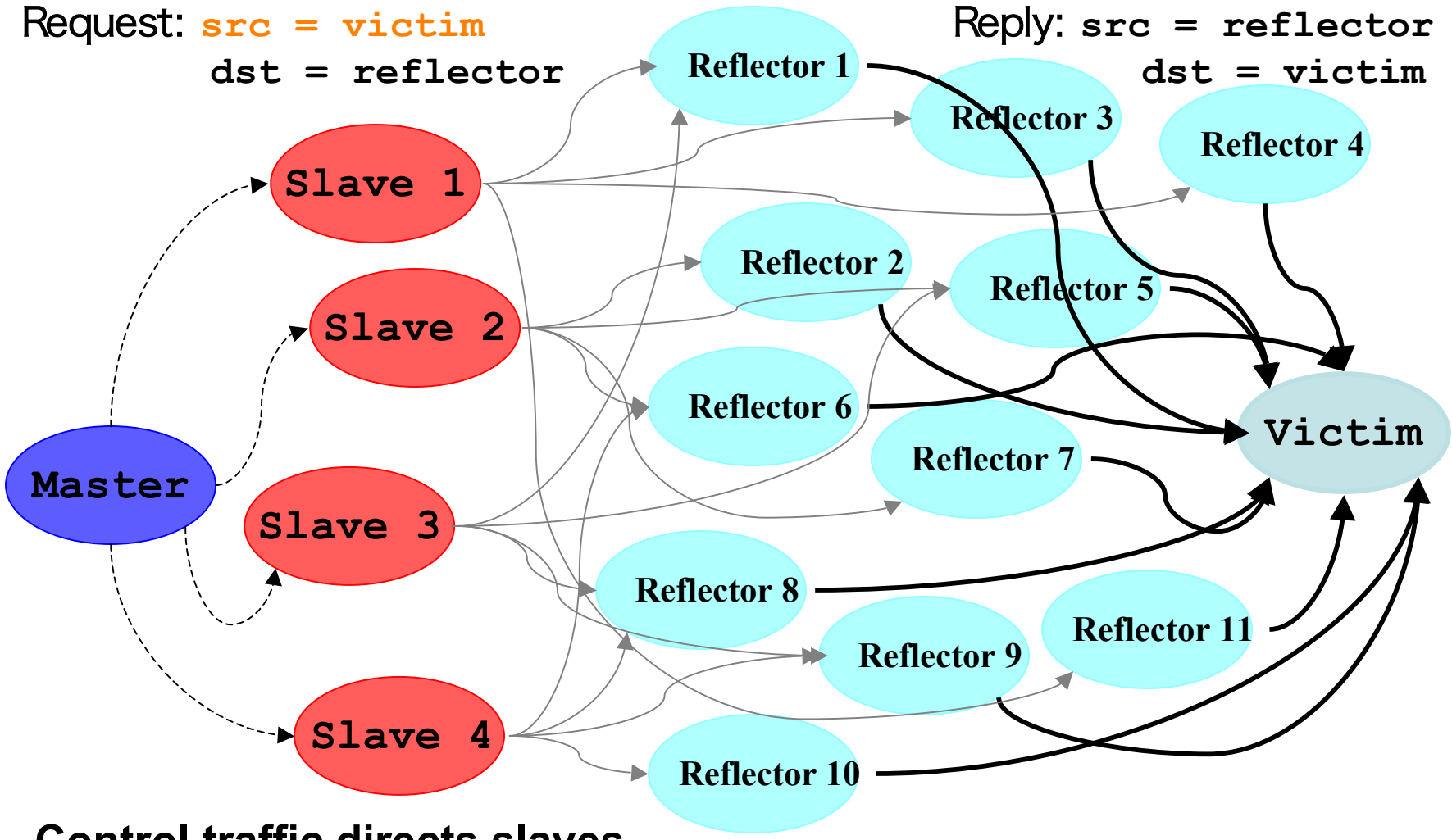

PDF of Filtering Granularity
Percentage
20
15
10
5
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31


Address
Hash(Address)
BitInterleave
0
k-1
Send k fragments into network



for $d := 0$ to $maxd$
  for all ordered combinations of fragments at distance d
    construct edge z
    if $d \neq 0$ then
      $z := z \oplus last$
    if Hash(EvenBits(z)) = OddBits(z) then
      insert edge (z,EvenBits(z),d) into G
      $last$:= EvenBits(z);

Diffuse DDoS: Reflector Attack



Control traffic directs slaves at victim & reflectors

Reflectors send streams of non-spoofed but unsolicited traffic to victim