

BAN-Attacks

Attacks
58,630
1,25,973 Total

BAN-Numfailedlogins

Fail Logins
154
61 attacked

BAN-Wrong frags

Wrong Frags
2,858
2,858 attacked

BAN-Urgentpkts

Urgent Pkts
14
4 attacked

BAN-Compromises

Compromises
35,178
1,030 attacked

BAN-Numroot

Root Accesses
38,068
159 attacked

BAN-Numfilecreations

File Creations
1,596
96 attacked

BAN-HotInds

Hot Inds
25,750
10,217 attacked

BAN-Shellprompts

Shell Prompts
52
11 attacked

BAN-Numaccessfiles

Access File Ops
516
11 attacked

BAN-Dstbytes

Dstbytes
2.49GB
2.20GB attacked

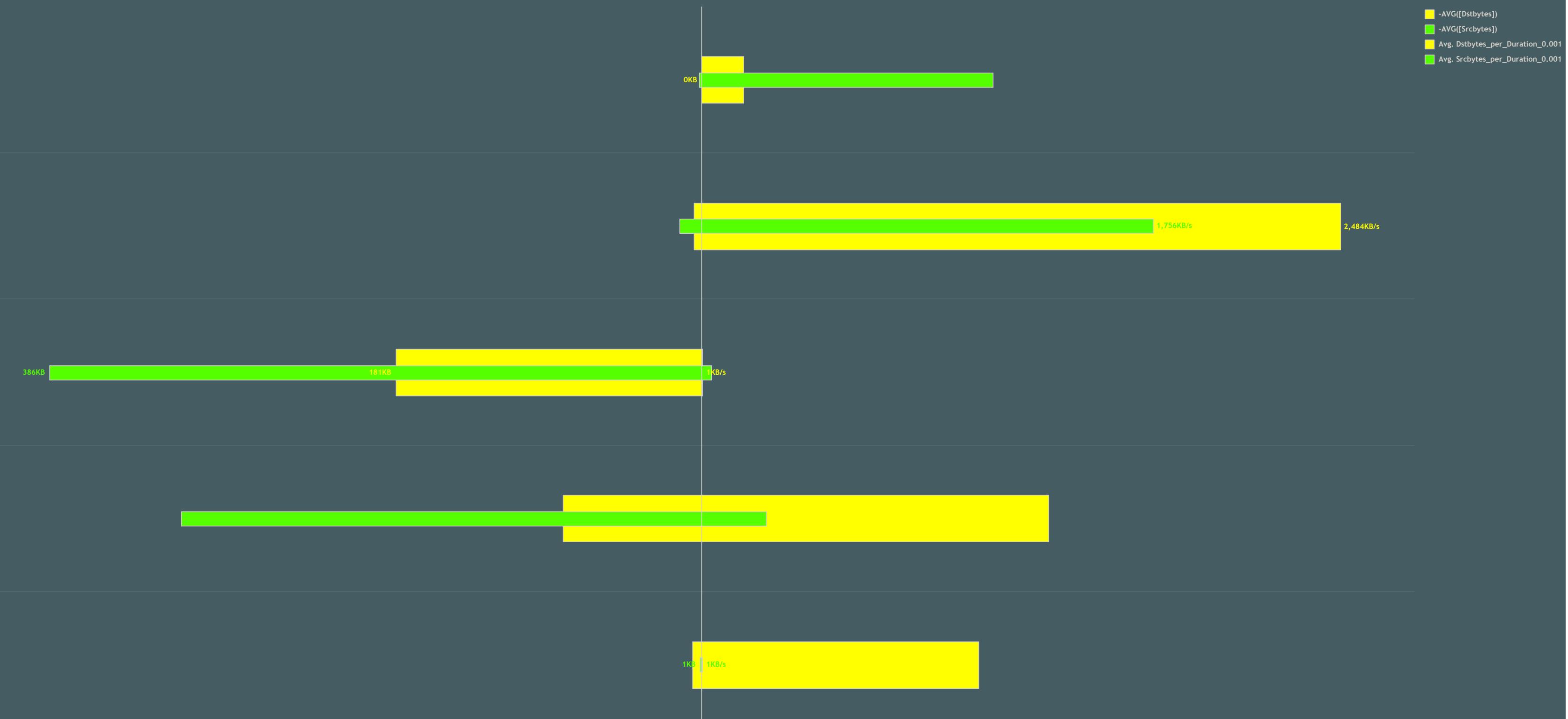
BAN-Srcbytes

Srcbytes
5.74GB
4.86GB attacked

BAN-Duration

Duration
36.17M s
24.82M s attacked

➡Dstbytes & Srcbytes|Bytes per Duration➡



-AVG([Dstbytes]), -AVG([Srcbytes]), Avg. Dstbytes_per_Duration_0.001 and Avg. Srcbytes_per_Duration_0.001 for each Attack_category. Color shows details about -AVG([Dstbytes]), -AVG([Srcbytes]), Avg. Dstbytes_per_Duration_0.001 and Avg. Srcbytes_per_Duration_0.001. For pane -AVG([Dstbytes]): The marks are labeled by average of Dstbytes. For pane -AVG([Srcbytes]): The marks are labeled by average of Srcbytes. For pane Average of Srcbytes_per_Duration_0.001: The marks are labeled by Avg. Srcbytes_per_Duration_0.001. For pane Average of Dstbytes_per_Duration_0.001: The marks are labeled by Avg. Dstbytes_per_Duration_0.001. The data is filtered on Action (Attack_category), which keeps 5 members.

→Dstbytes &

| Bytes per Duration →

dos
36.46%

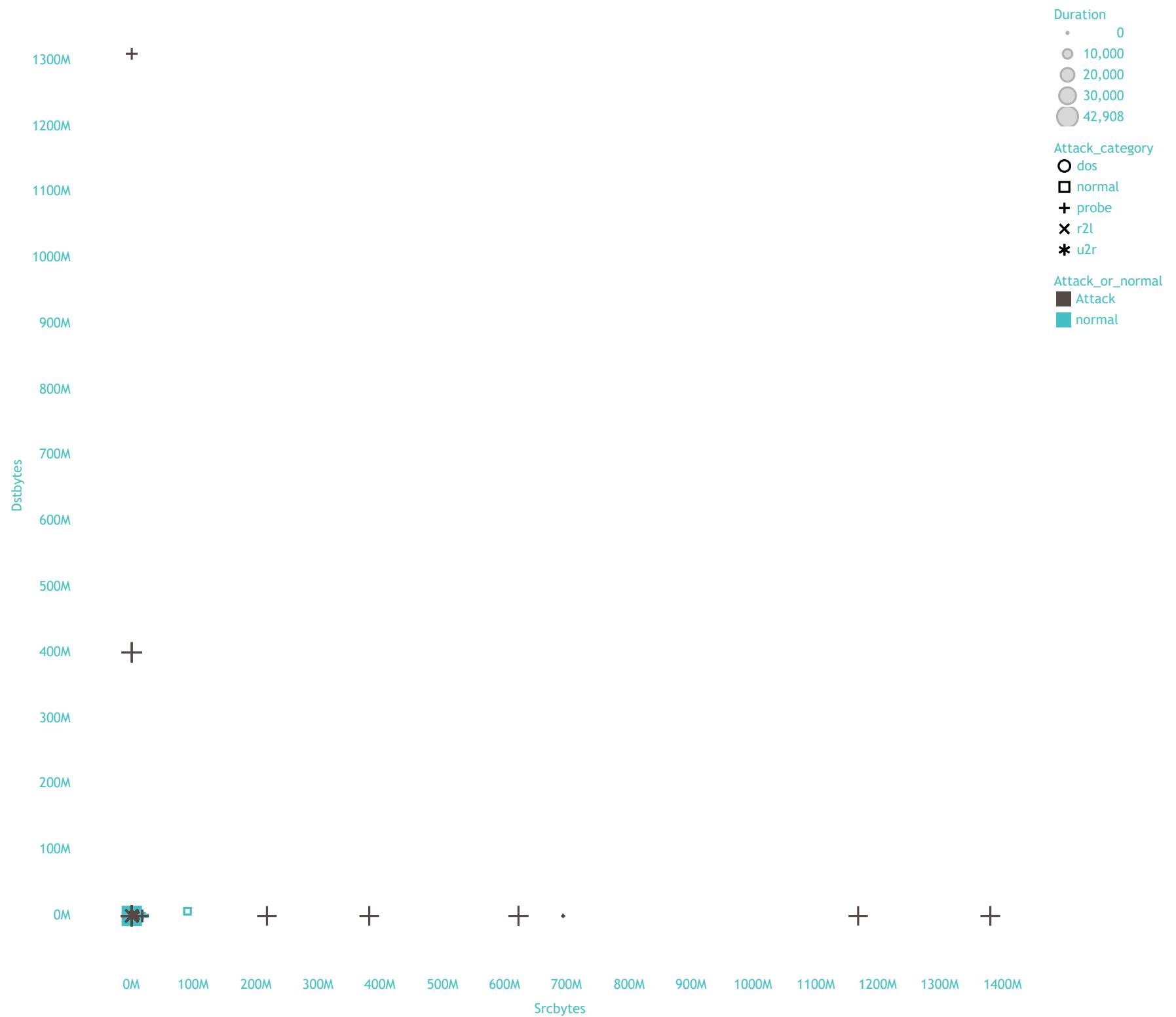
normal
53.46%

probe
9.25%

r2l
0.79%

u2r
0.04%

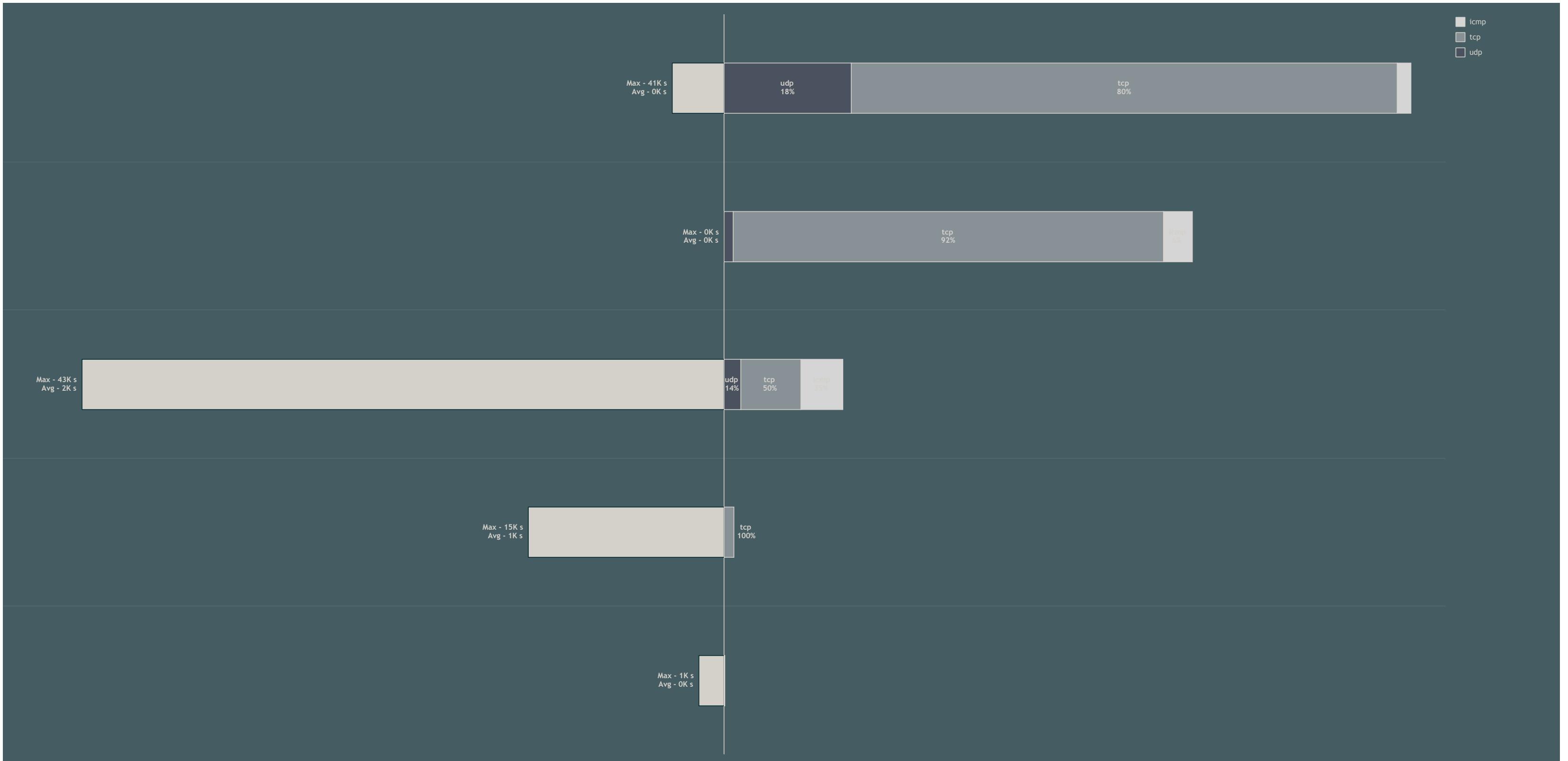
Attack_category
dos
normal
probe
r2l
u2r



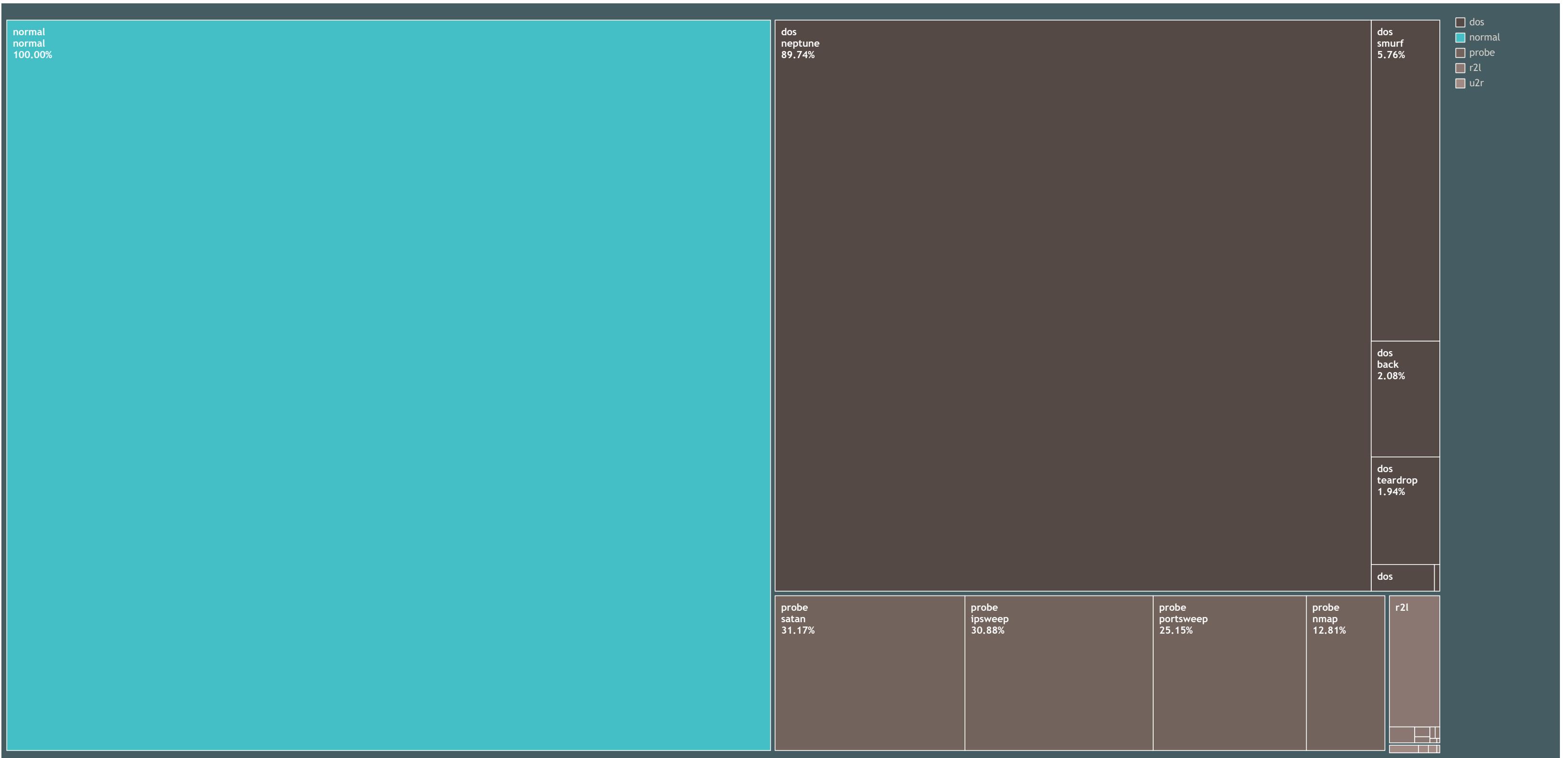
Srcbytes vs. Dstbytes. Color shows details about Attack_or_normal. Size shows Duration. Shape shows details about Attack_category. The data is filtered on Tooltip (Attack_category), which keeps 5 members.



Srcbytes_per_Duration_0.001 vs. Dstbytes_per_Duration_0.001. Color shows details about Attack_or_normal. Size shows Duration_0.001. Shape shows details about Attack_category. The data is filtered on Tooltip (Attack_category), which keeps 5 members.



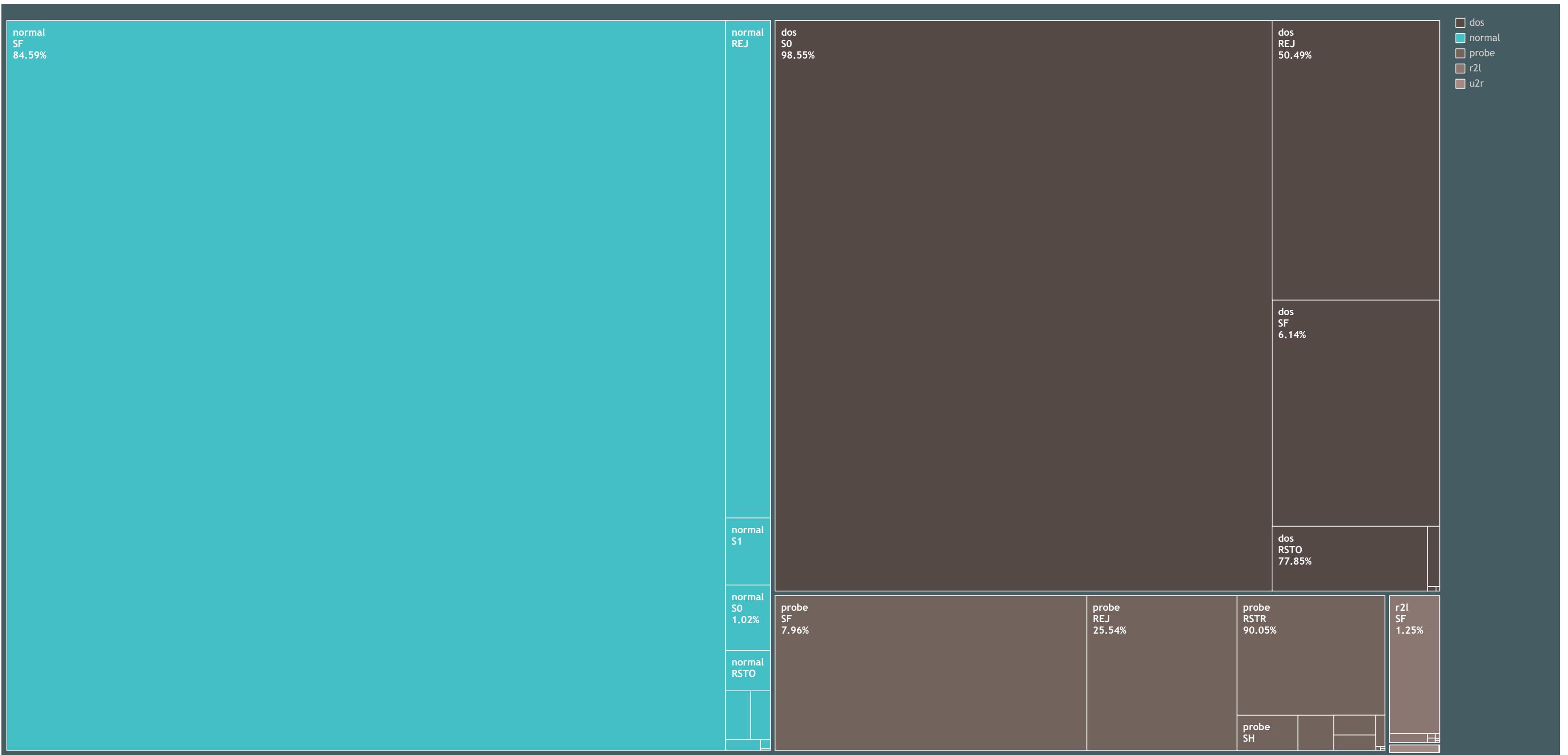
-AVG([Duration]) and count of Protocoltype for each Attack_category. For pane Count of Protocoltype: Color shows details about Protocoltype. The marks are labeled by % of Total CountProtocoltype, Protocoltype and count of Protocoltype. For pane -AVG([Duration]): The marks are labeled by maximum of Duration and average of Duration. The data is filtered on Action (Attack_category), which keeps 5 members.



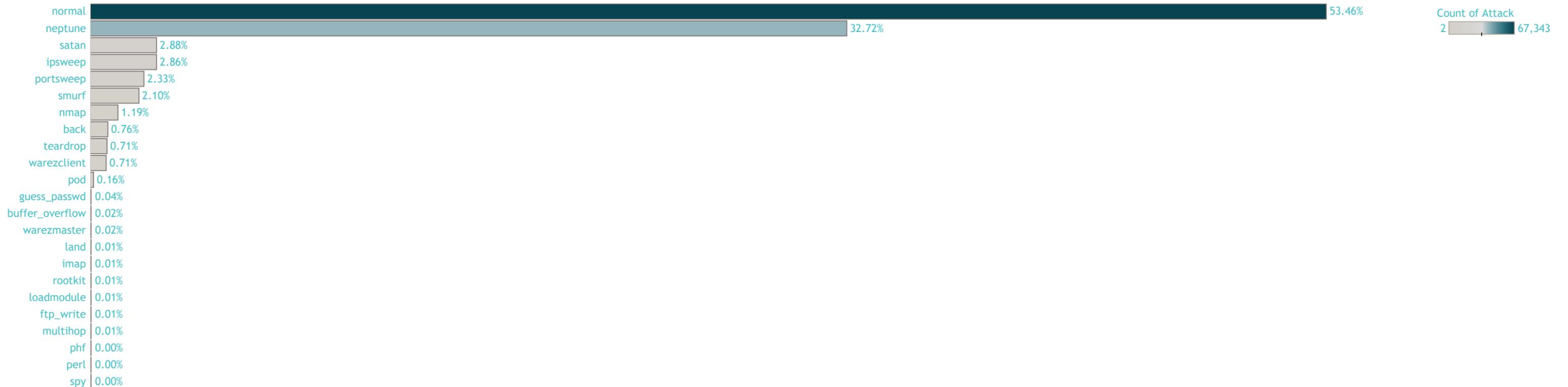
Attack_category, Attack and % of Total Count of Attack. Color shows details about Attack_category. Size shows count of Attack. The marks are labeled by Attack_category, Attack and % of Total Count of Attack. The data is filtered on Action (Attack_category), which keeps 5 members. The view is filtered on Attack_category and Attack. The Attack_category filter keeps dos, normal, probe, r2l and u2r. The Attack filter keeps 23 of 23 members.



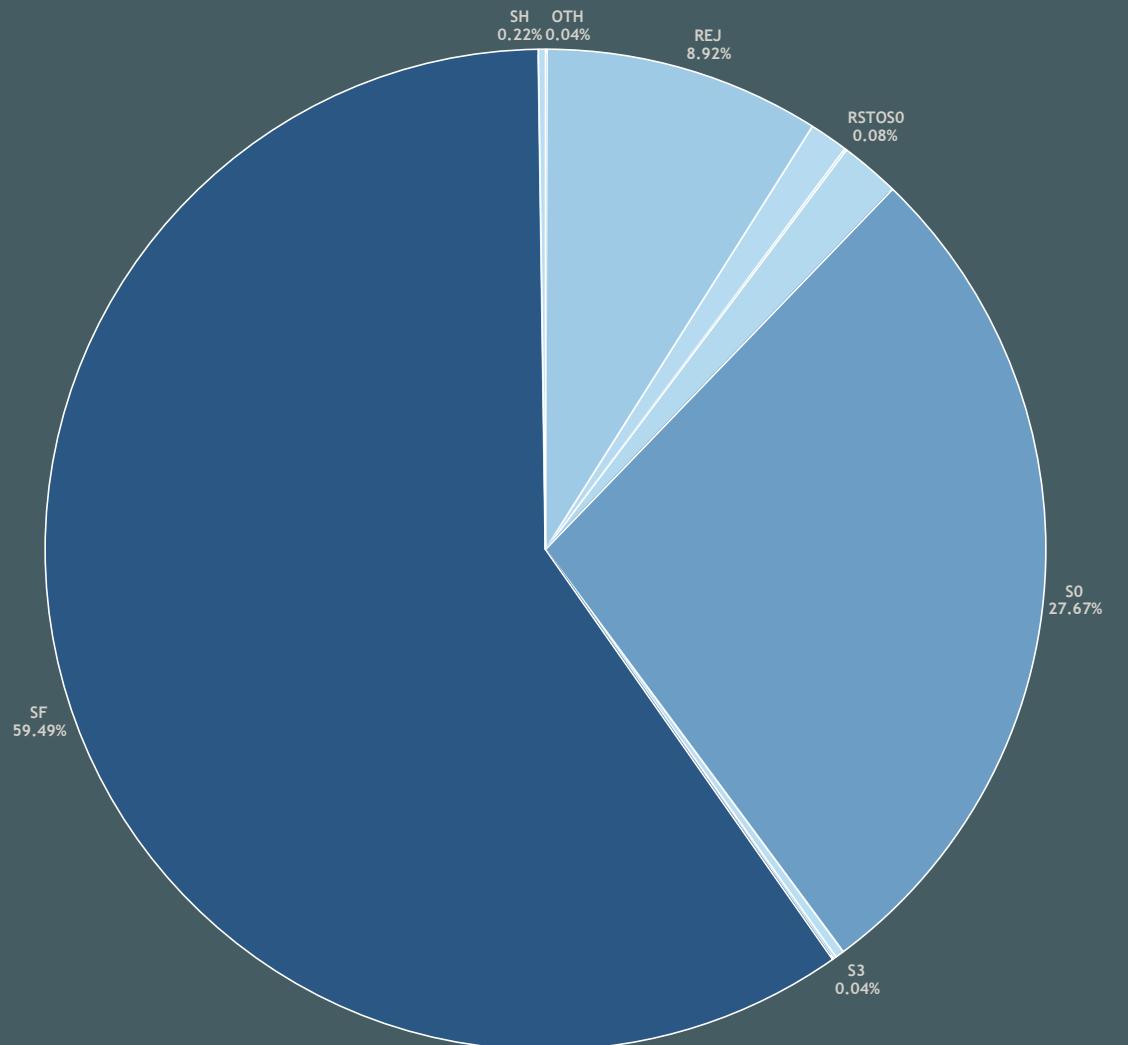
Count of Flag for each Flag. Color shows count of Flag. The marks are labeled by % of Total Count of Flag. The data is filtered on Tooltip (Attack_category,Attack), which keeps 23 members.

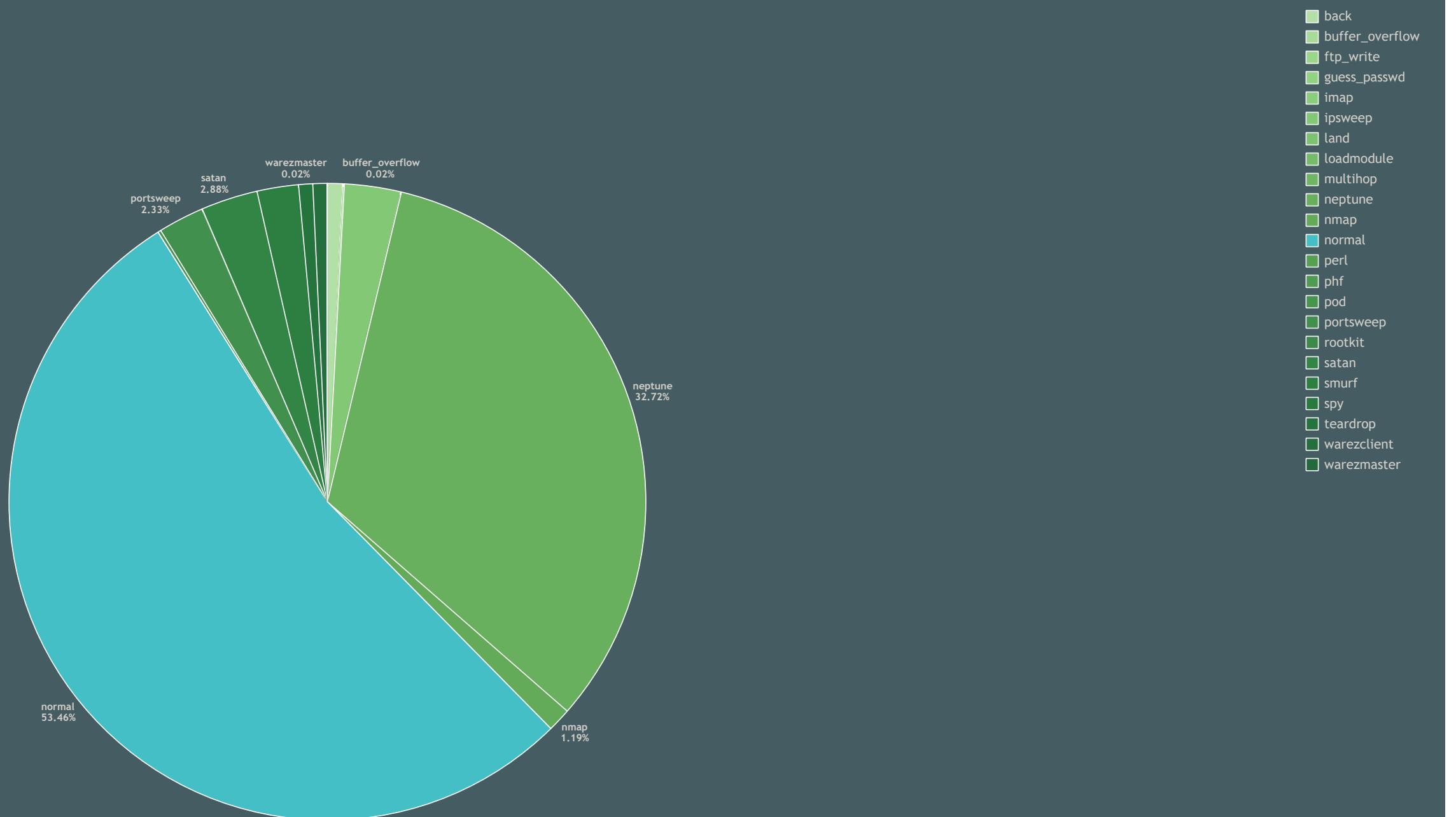


Attack_category, Flag and % of Total Count of Flag. Color shows details about Attack_category. Size shows count of Flag. The marks are labeled by Attack_category, Flag and % of Total Count of Flag. The data is filtered on Action (Attack_category), which keeps 5 members.



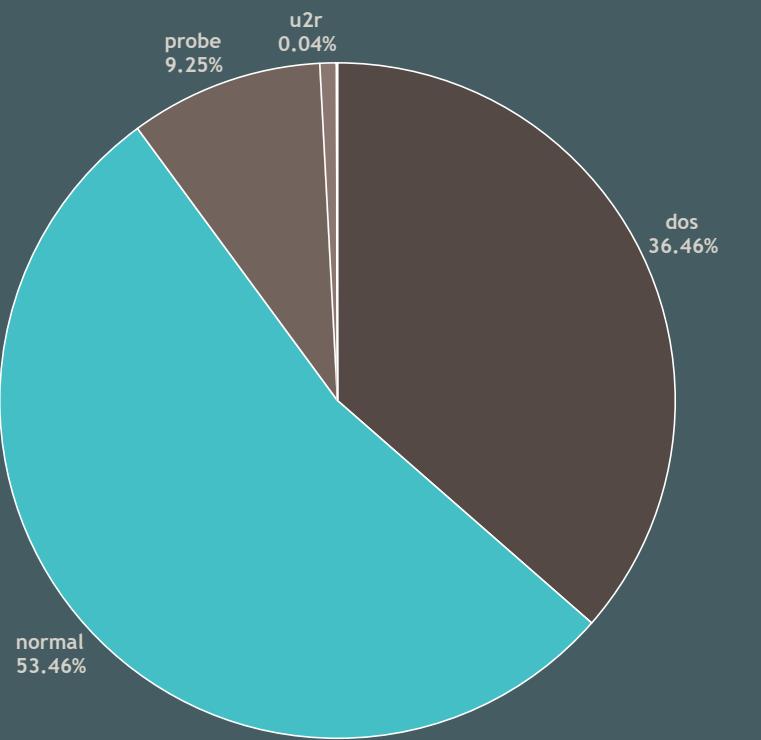
Count of Attack for each Attack. Color shows count of Attack. The marks are labeled by % of Total Count of Attack. The data is filtered on Tooltip (Attack_category,Flag), which keeps 37 members.





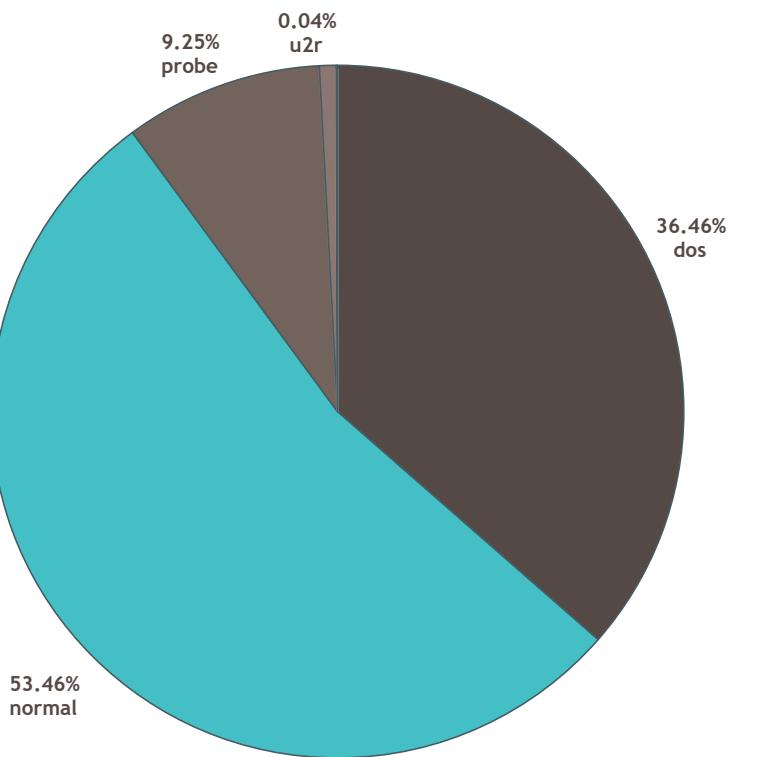
Attack and COUNT([Attack]) / TOTAL(COUNT([Attack])). Color shows details about Attack. The marks are labeled by Attack and COUNT([Attack]) / TOTAL(COUNT([Attack])).

dos
normal
probe
r2l
u2r

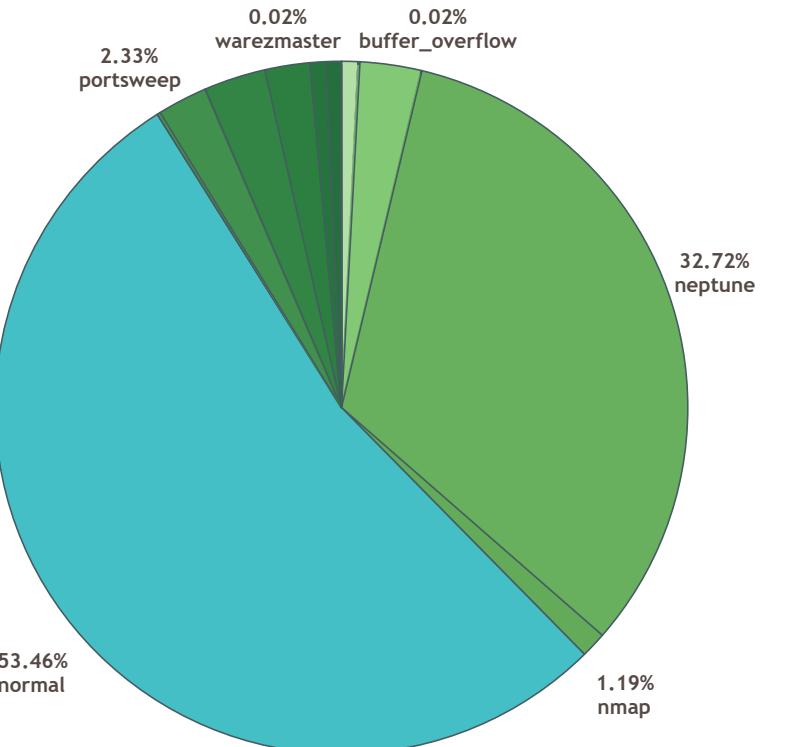


Attack_category and COUNT([Attack_category]) / TOTAL(COUNT([Attack_category])). Color shows details about Attack_category. The marks are labeled by Attack_category and COUNT([Attack_category]) / TOTAL(COUNT([Attack_category])).

dos
normal
probe
r2l
u2r

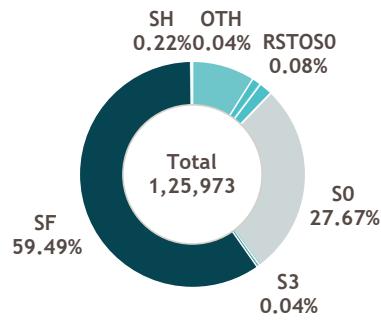


% of Total Count of Attack_category and Attack_category. Color shows details about Attack_category. The marks are labeled by % of Total Count of Attack_category and Attack_category.



back
 buffer_overflow
 ftp_write
 guess_passwd
 imap
 ipsweep
 land
 loadmodule
 multihop
 neptune
 nmap
 perl
 phf
 pod
 portsweep
 rootkit
 satan
 smurf
 spy
 teardrop
 warezclient
 warezmaster

COUNT([Attack]) / TOTAL(COUNT([Attack])) and Attack. The marks are labeled by COUNT([Attack]) / TOTAL(COUNT([Attack])) and Attack. The data is filtered on Tooltip (Attack_category,Protocoltype), Tooltip (Attack_category), Tooltip (Flag), Tooltip (Service_category) and Tooltip (Protocoltype). The Tooltip (Attack_category,Protocoltype) filter keeps 12 members. The Tooltip (Attack_category) filter keeps 5 members. The Tooltip (Flag) filter keeps 11 members. The Tooltip (Service_category) filter keeps 8 members. The Tooltip (Protocoltype) filter keeps 3 members.



Avg(0) and Avg(0): Color shows count of Flag. The marks are labeled by Flag and % of Total Count of Flag. For pane Avg(0) (2): The marks are labeled by count of Flag. The data is filtered on Tooltip (Attack_category,Protocoltype), Tooltip (Attack_category), Tooltip (Attack_or_normal,Protocoltype), Tooltip (Attack_or_normal,Service_category,Protocoltype), Tooltip (Service_category), Tooltip (Attack_or_normal,Service_category) and Tooltip (Protocoltype). The Tooltip (Attack_category,Protocoltype) filter keeps 12 members. The Tooltip (Attack_category) filter keeps 5 members. The Tooltip (Attack_or_normal,Protocoltype) filter keeps 6 members. The Tooltip (Attack_or_normal,Service_category,Protocoltype) filter keeps 21 members. The Tooltip (Service_category) filter keeps 8 members. The Tooltip (Attack_or_normal,Service_category) filter keeps 14 members. The Tooltip (Protocoltype) filter keeps 3 members.

►Dstbytes &

| Bytes per Duration ►

Protocoltype
■ icmp
■■ tcp
■■■ udp

icmp
6.58%

tcp
81.52%

udp
11.90%

➡Dstbytes & | Bytes per Duration➡

Service_category

- D&DS
- E&DS
- E&MS
- FT&SS
- M&LS
- NP&NS
- RA&CS
- W&IS

D&DS
0.52%

E&DS
1.44%

E&MS
7.47%

FT&SS
8.07%

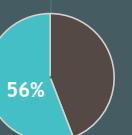
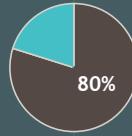
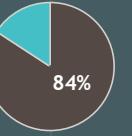
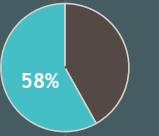
M&LS
35.01%

NP&NS
9.37%

RA&CS
3.65%

W&IS
34.47%

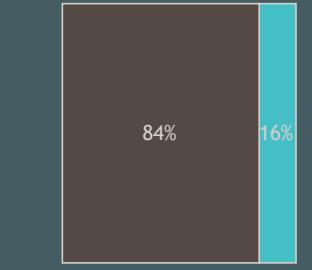
Attack
normal



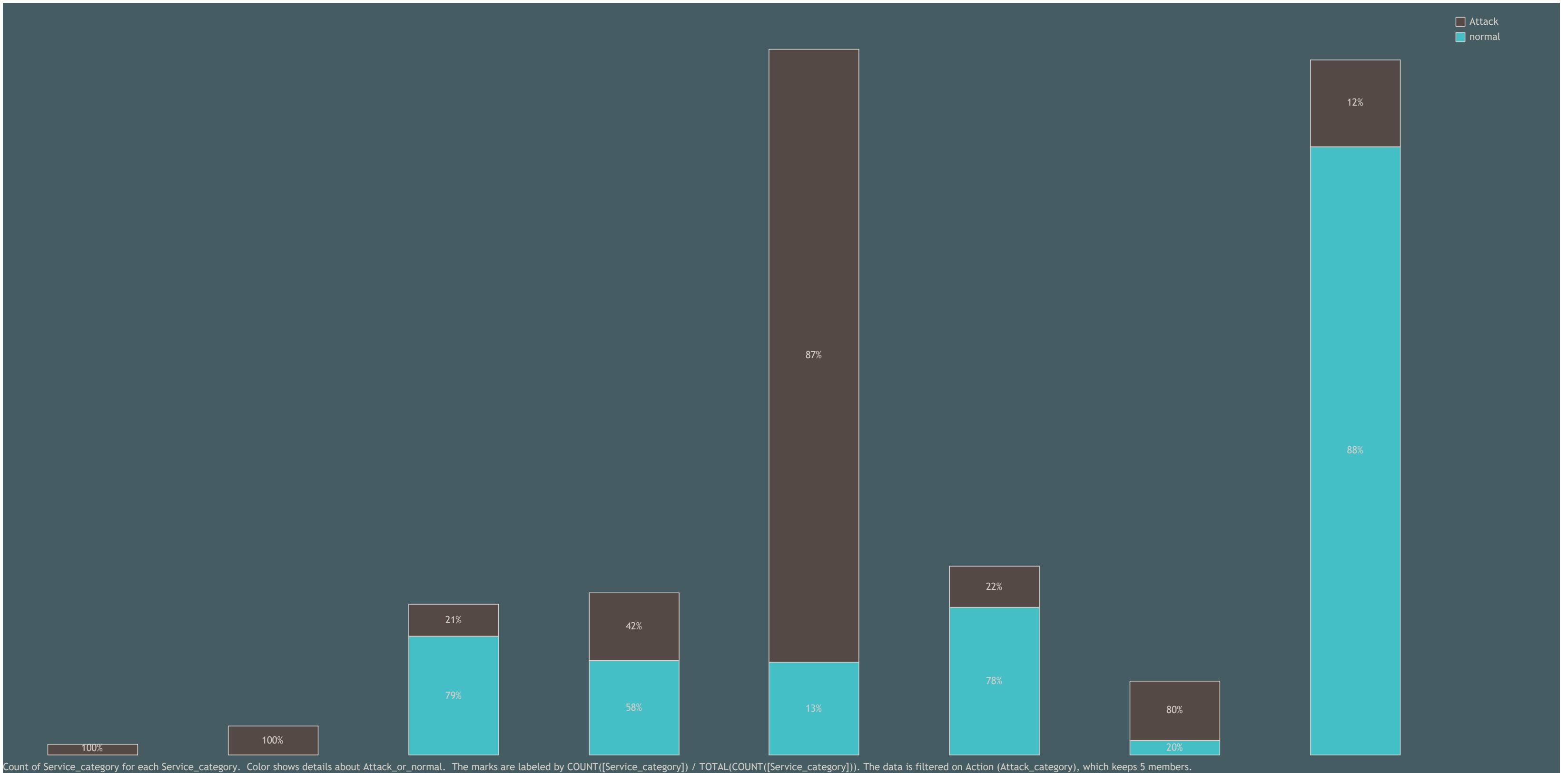
Avg(0) and Avg(0) for each Protocol type broken down by Service_category. Color shows details about Attack_or_normal. The marks are labeled by % of Total Count of Attack_or_normal. The data is filtered on Action (Attack_category), which keeps 5 members.

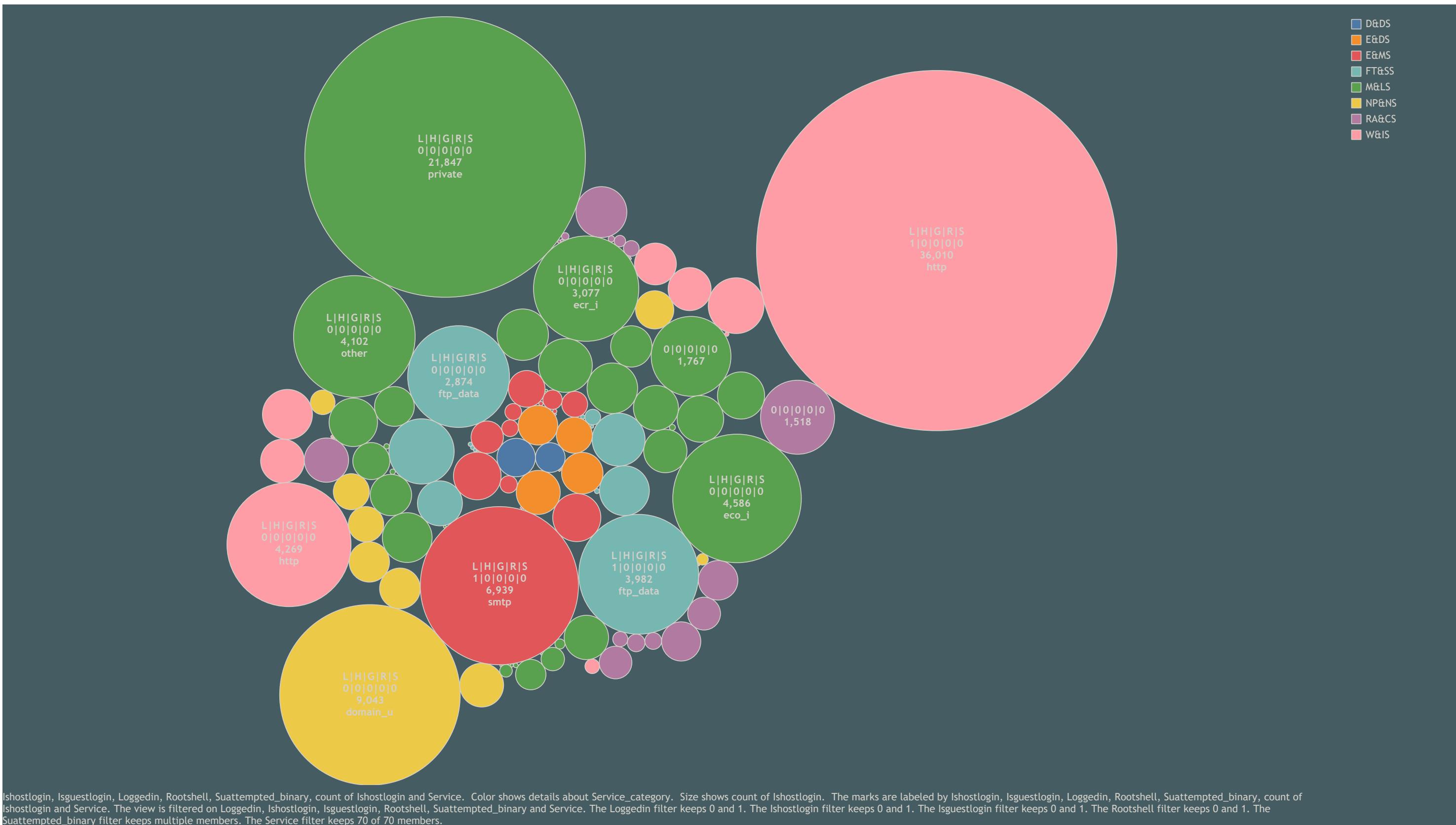


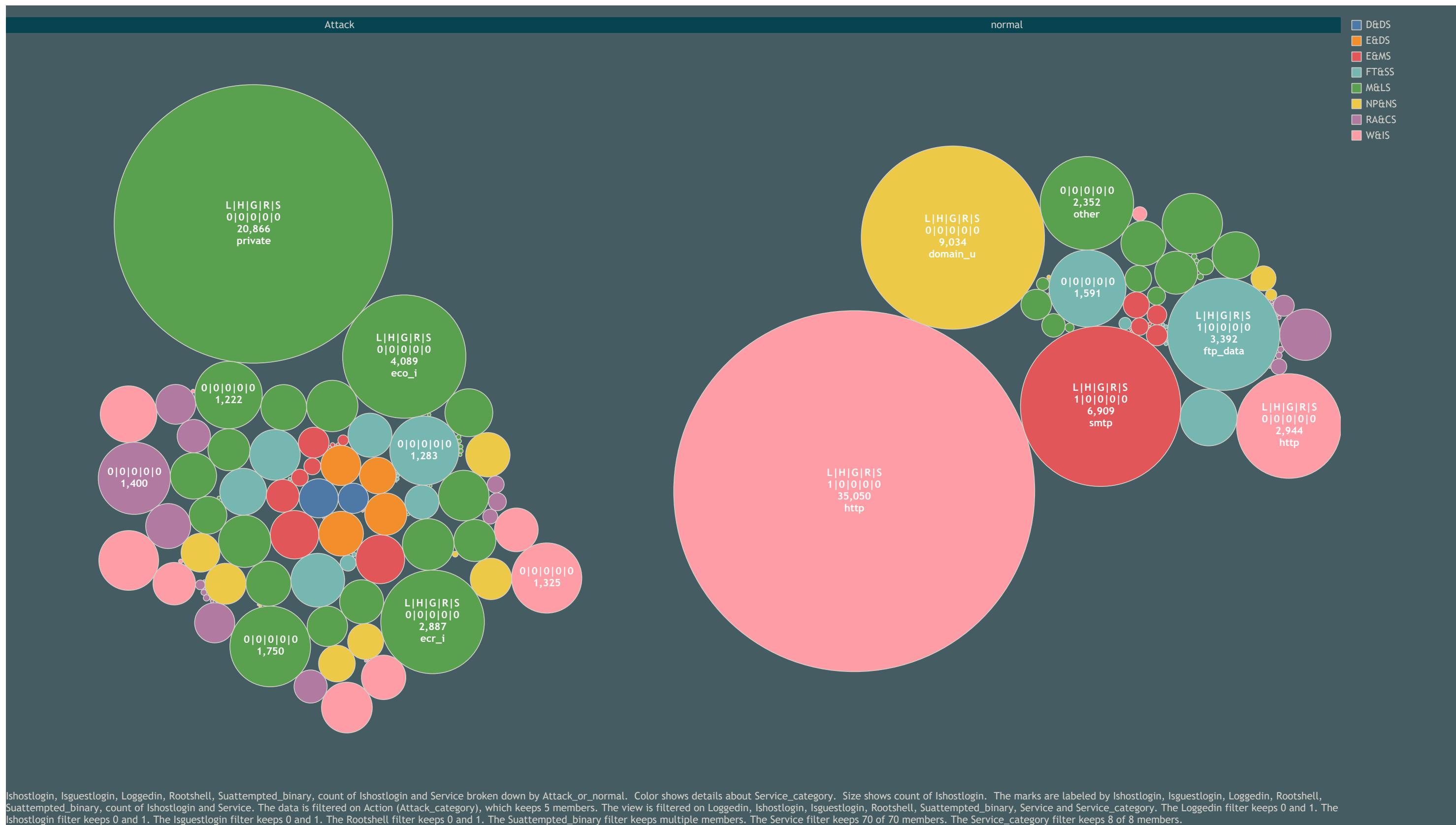
Count of Service
1 40,338



-COUNT([Protocolype]) for each Protocolype. Color shows details about Attack_or_normal. The marks are labeled by % of Total Count of Protocolype. The data is filtered on Action (Attack_category), which keeps 5 members.





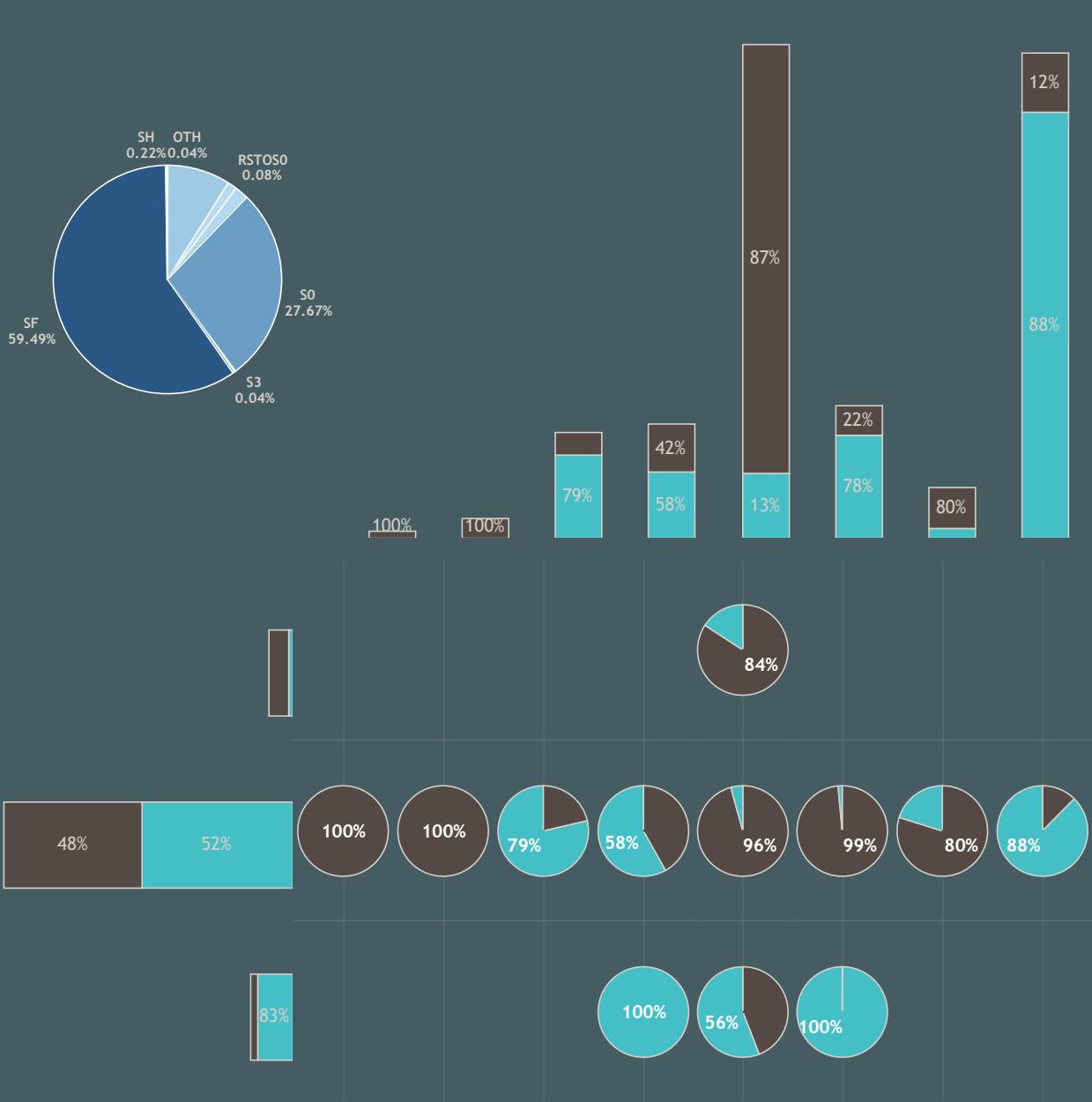


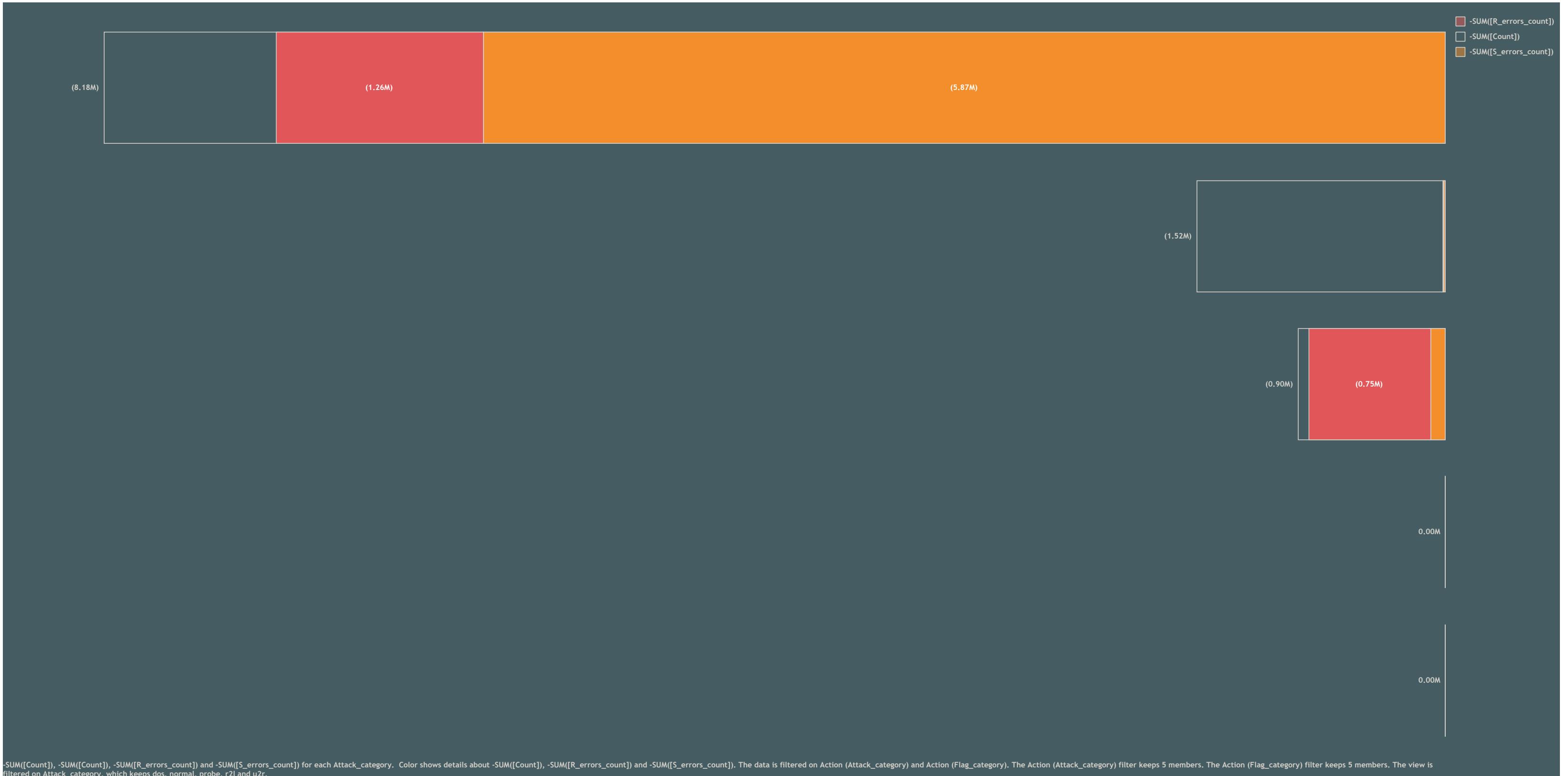
Proof that services are unique to protocol except private and other service

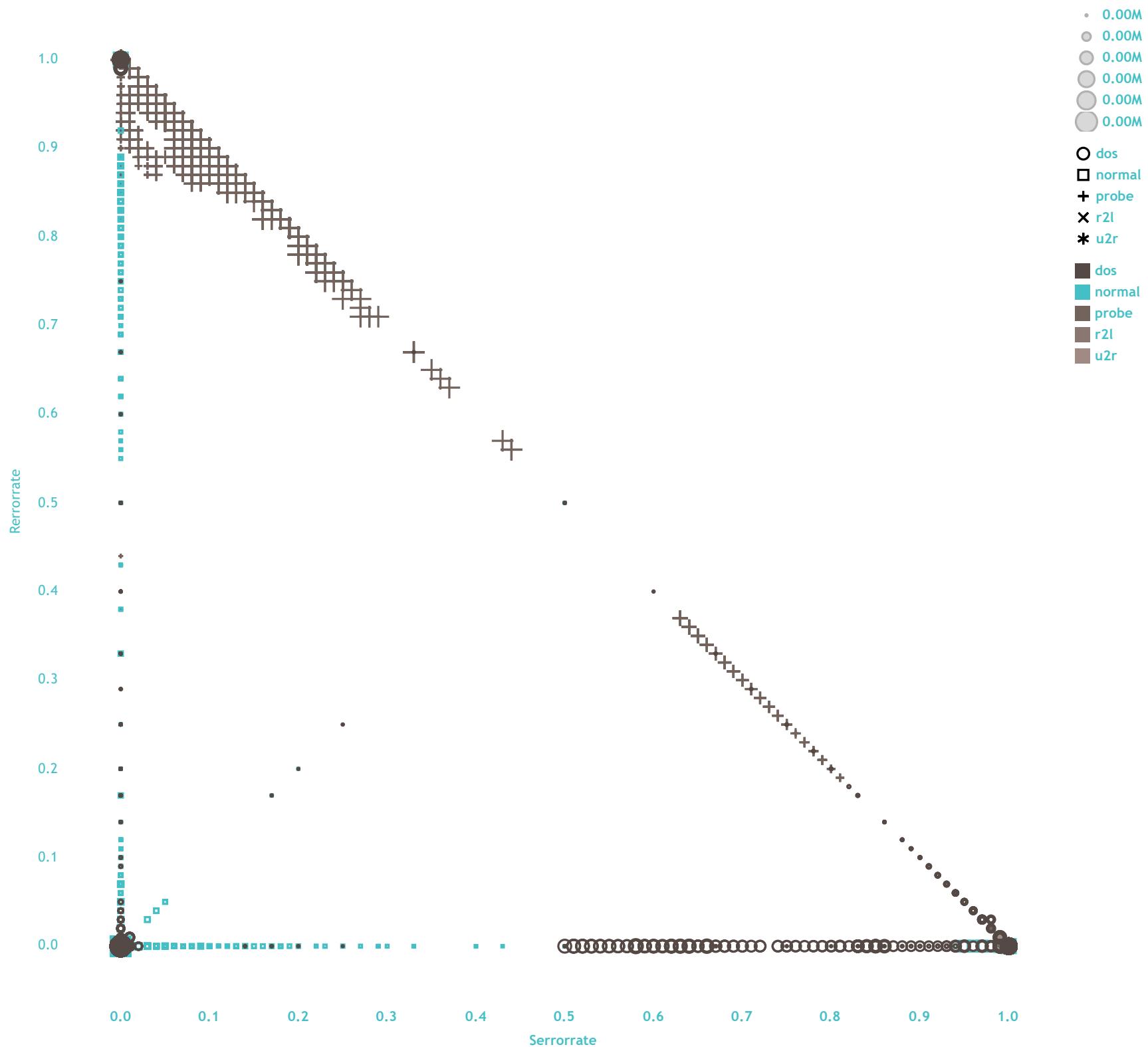
Index	Service	Protocol Type		
		icmp	tcp	udp
1	aol		0.00%	
2	auth		0.93%	
3	bgp		0.69%	
4	courier		0.71%	
5	csnet_ns		0.53%	
6	ctf		0.55%	
7	daytime		0.51%	
8	discard		0.52%	
9	domain		0.55%	
10	domain_u			60.31%
11	echo		0.42%	
12	eco_i	55.31%		
13	ecr_i	37.11%		
14	efs		0.47%	
15	exec		0.46%	
16	finger		1.72%	
17	ftp		1.71%	
18	ftp_data		6.68%	
19	gopher		0.50%	
20	harvest		0.00%	
21	hostnames		0.45%	
22	http		39.28%	
23	http_443		0.52%	
24	http_2784		0.00%	
25	http_8001		0.00%	
26	imap4		0.63%	
27	IRC		0.18%	
28	iso_tsap		0.67%	
29	klogin		0.42%	
30	kshell		0.29%	
31	ldap		0.40%	
32	link		0.46%	
33	login		0.42%	
34	mtp		0.43%	
35	name		0.44%	
36	netbios_dgm		0.39%	
37	netbios_ns		0.34%	
38	netbios_ssn		0.35%	
39	netstat		0.35%	
40	nntp		0.61%	
41	nntp		0.29%	
42	ntp_u			1.12%
43	other		1.82%	16.59%
44	pm_dump		0.00%	
45	pop_2		0.08%	
46	pop_3		0.26%	
47	printer		0.07%	
48	private		18.08%	21.95%
49	red_i	0.10%		
50	remote_job		0.08%	
51	rje		0.08%	
52	shell		0.06%	
53	smtp		7.12%	
54	sql_net		0.24%	
55	ssh		0.30%	
56	sunrpc		0.37%	
57	supdup		0.53%	
58	systat		0.46%	
59	telnet		2.29%	
60	tftp_u			0.02%
61	tim_i	0.10%		
62	time		0.64%	
63	urh_i	0.12%		
64	urp_i	7.26%		
65	uucp		0.76%	
66	uucp_path		0.67%	
67	vmnet		0.60%	
68	whois		0.67%	
69	X11		0.07%	
70	Z39_50		0.84%	

% of Total Count of Service broken down by Protocol Type vs. INDEX() and Service.



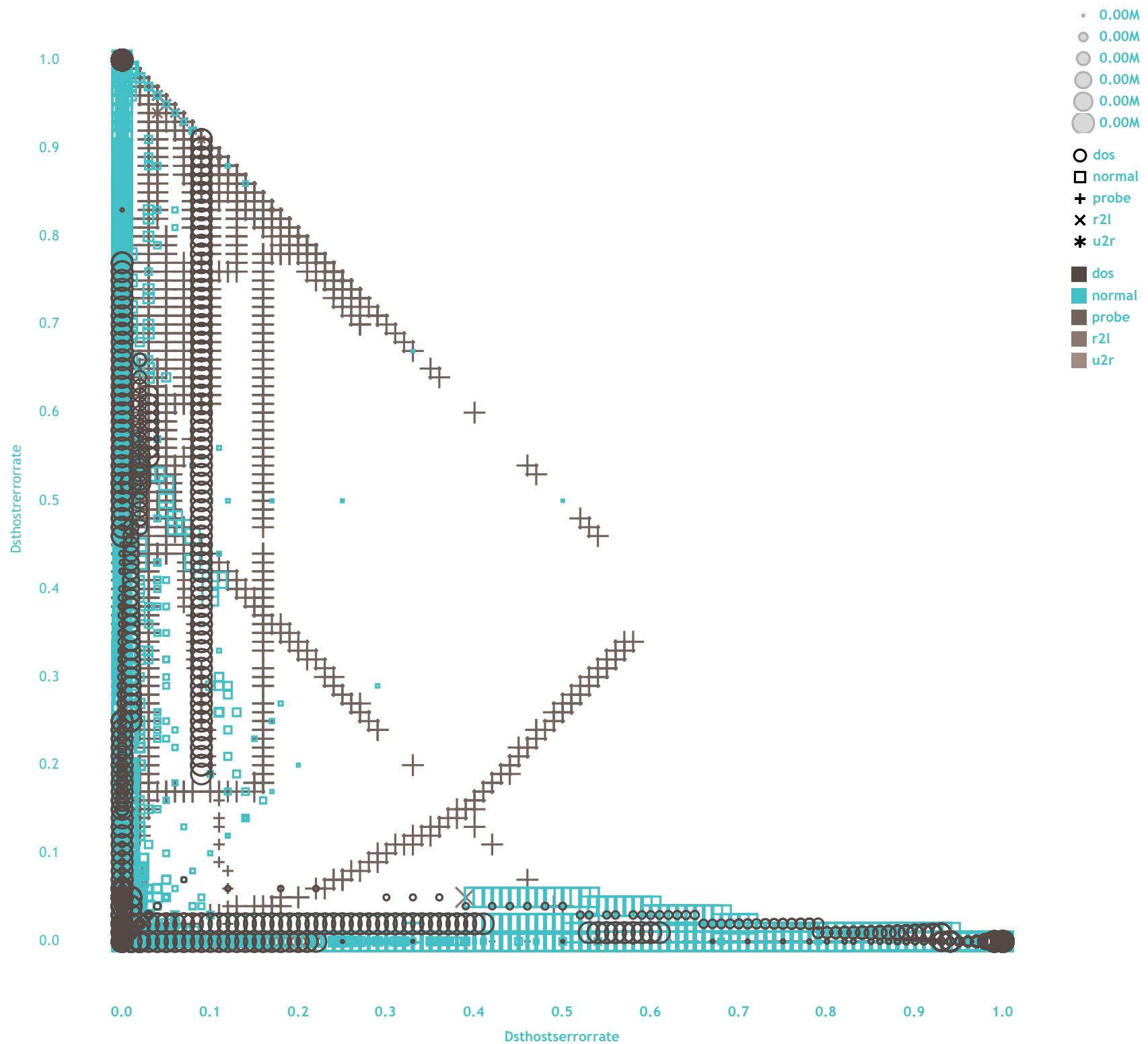






Serrorate vs. Rerrorate. Color shows details about Attack_category. Size shows Count. Shape shows details about Attack_category. The data is filtered on Tooltip (Flag_category) and Tooltip (Attack_category). The Tooltip (Flag_category) filter keeps 5 members. The Tooltip (Attack_category) filter keeps 5 members.

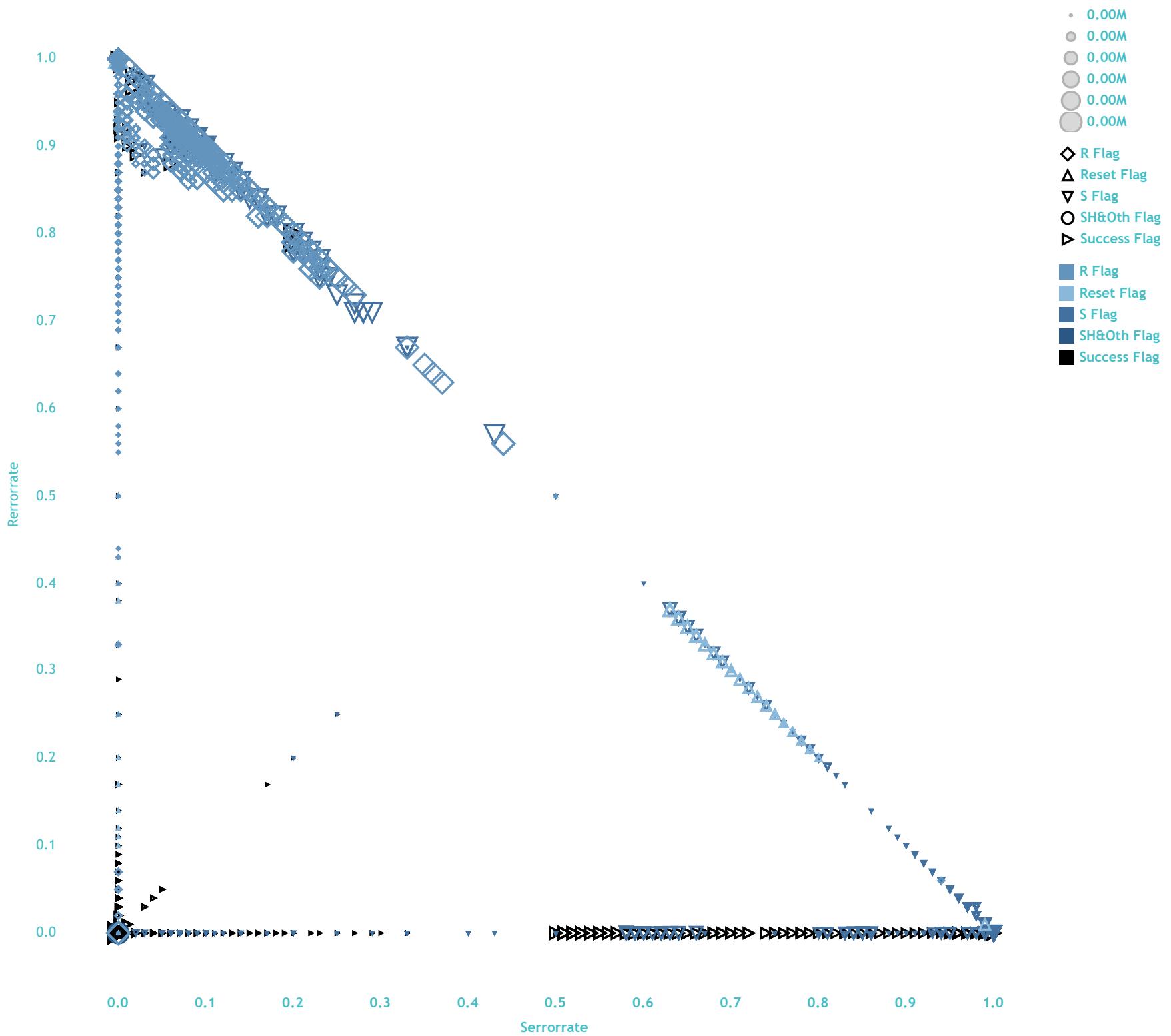




Dsthosterrorrate vs. Dsthostrrorrate. Color shows details about Attack_category. Size shows Dsthostcount. Shape shows details about Attack_category. The data is filtered on Tooltip (Attack_category), which keeps 5 members.



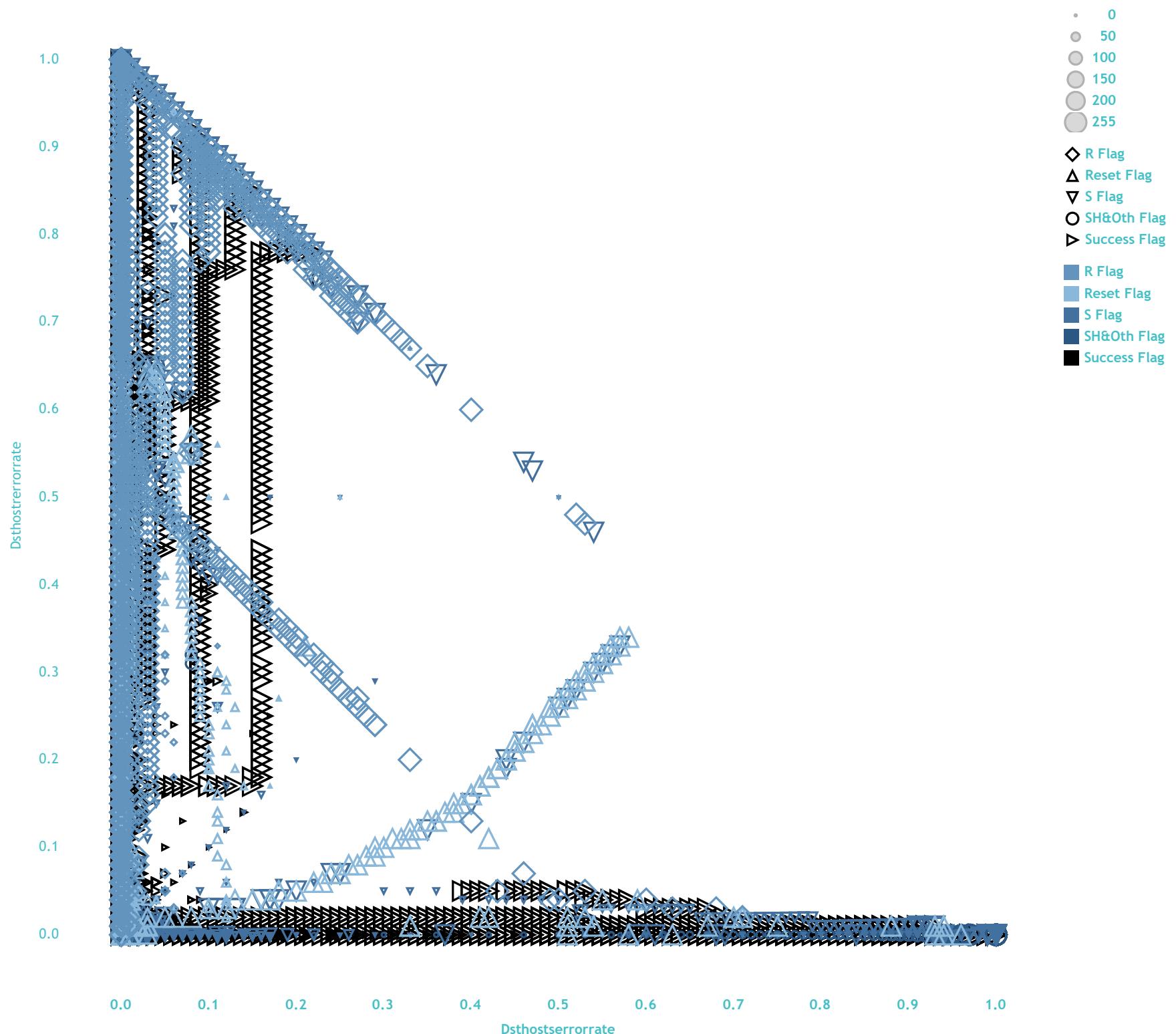
-SUM([Count]), -SUM([Count]), -SUM([R_errors_count]) and -SUM([S_errors_count]) for each Flag_category. Color shows details about -SUM([Count]), -SUM([R_errors_count]) and -SUM([S_errors_count]). The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Flag_category, which keeps R Flag, Reset Flag, S Flag, SH&Oth Flag and Success Flag.



Serrorate vs. Rerrorate. Color shows details about Flag_category. Size shows Count. Shape shows details about Flag_category. The data is filtered on Tooltip (Flag_category), which keeps 5 members.

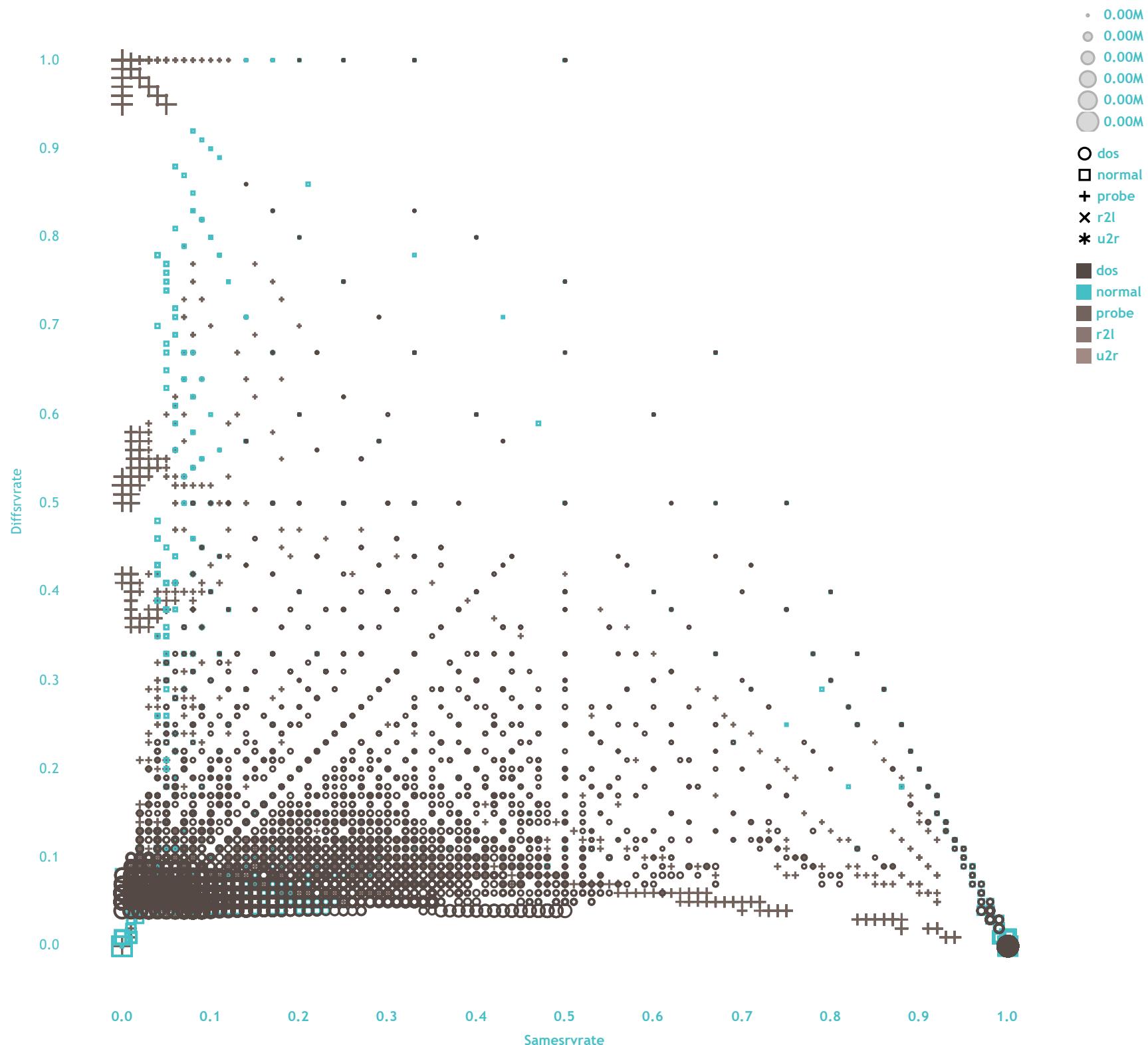


-SUM([Dsthostcount]), -SUM([Dsthostcount]), -SUM([Dsthost_R_errors_count]) and -SUM([Dsthost_S_errors_count]) for each Flag_category. Color shows details about -SUM([Dsthostcount]), -SUM([Dsthost_R_errors_count]) and -SUM([Dsthost_S_errors_count]). The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Flag_category, which keeps R Flag, Reset Flag, S Flag, SH&Oth Flag and Success Flag.

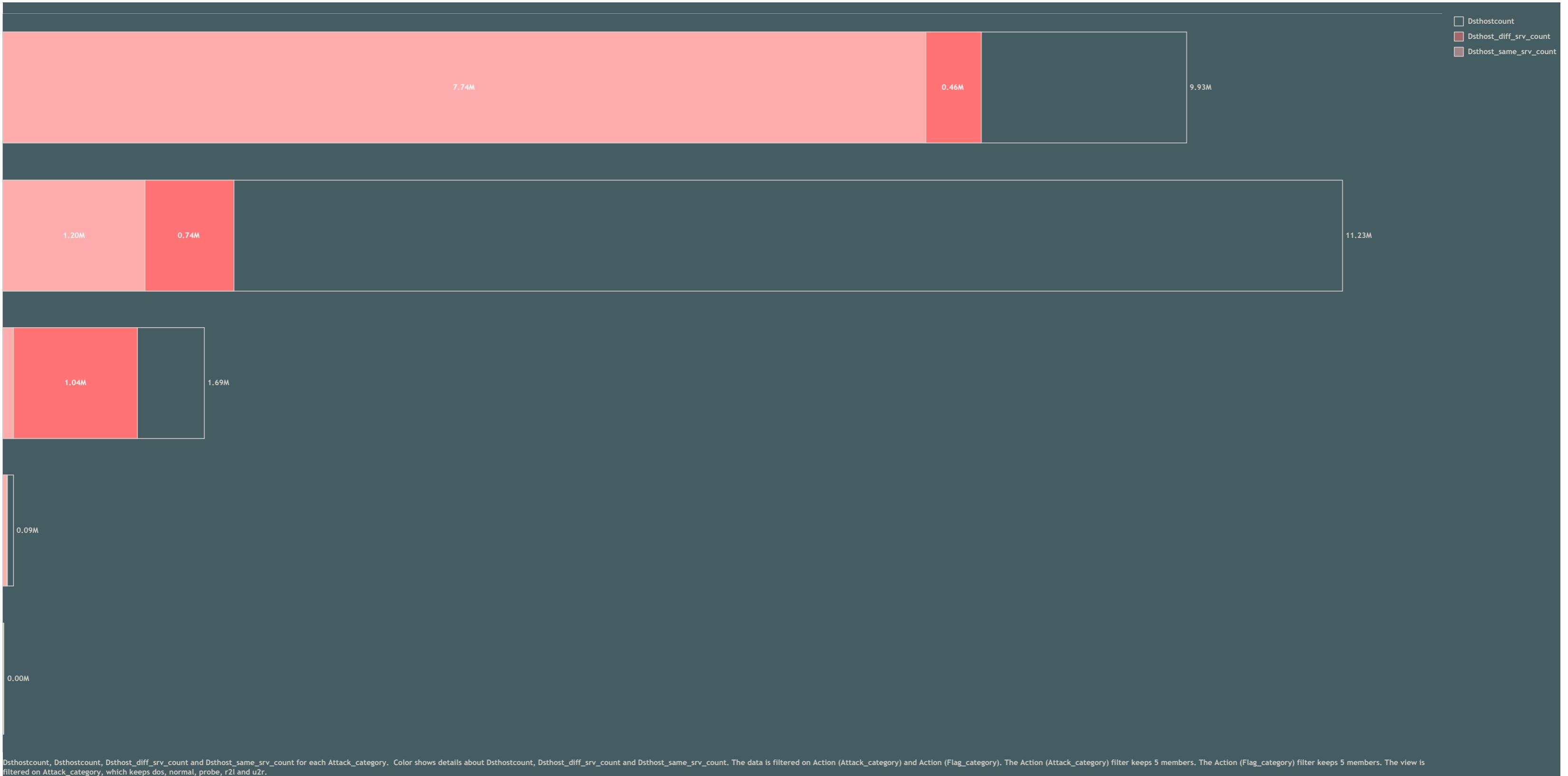


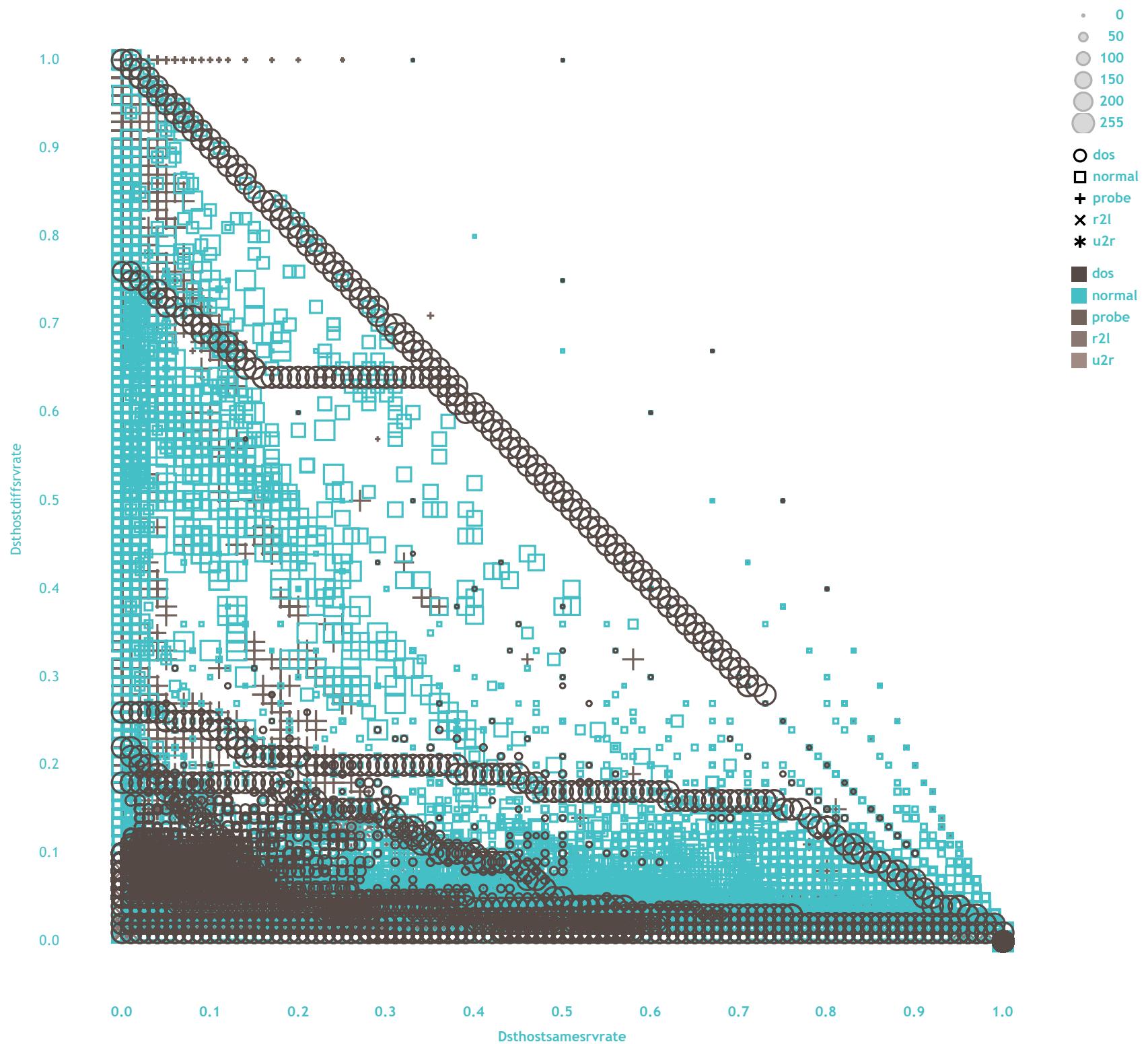


Count, Count, Diff_srv_count and Same_srv_count for each Attack_category. Color shows details about Count, Diff_srv_count and Same_srv_count. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Attack_category, which keeps dos, normal, probe, r2l and u2r.



Samesrvrate vs. Diffsrvrate. Color shows details about Attack_category. Size shows Count. Shape shows details about Attack_category. The data is filtered on Tooltip (Flag_category) and Tooltip (Attack_category). The Tooltip (Flag_category) filter keeps 5 members. The Tooltip (Attack_category) filter keeps 5 members.

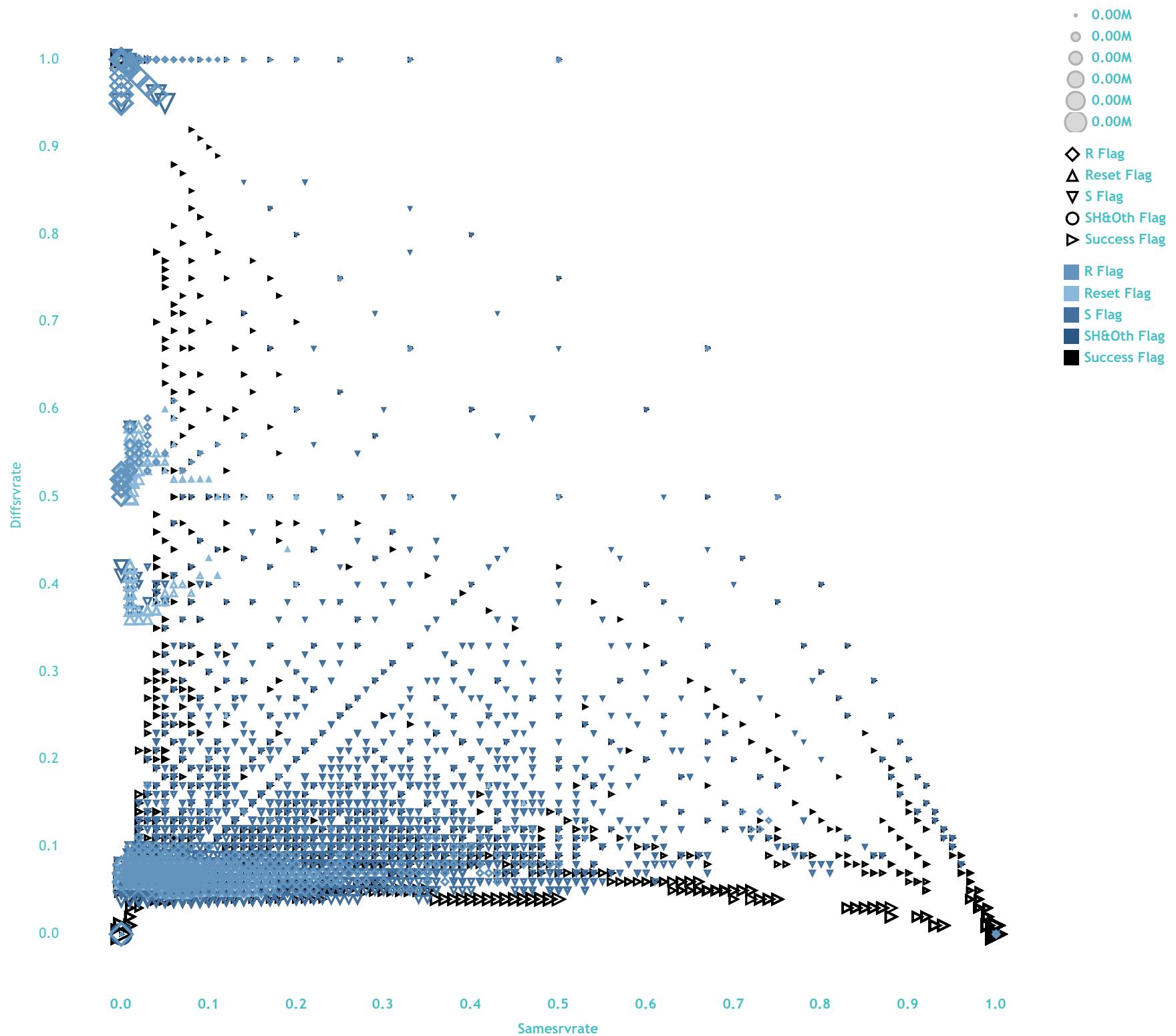




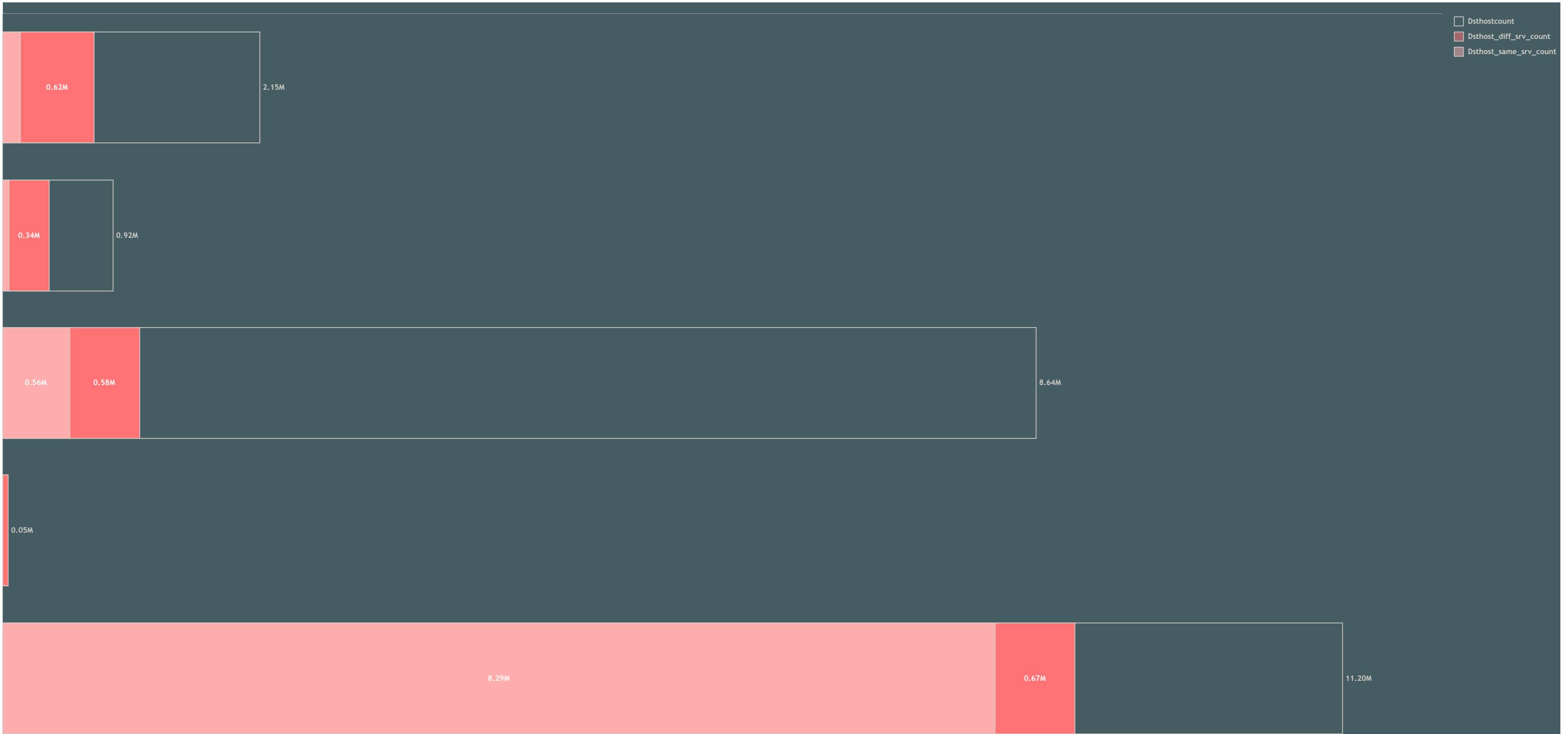
Dsthostsamesrrate vs. Dsthostdiffsrrate. Color shows details about Attack_category. Size shows Dsthostcount. Shape shows details about Attack_category.
The data is filtered on Tooltip (Attack_category), which keeps 5 members.



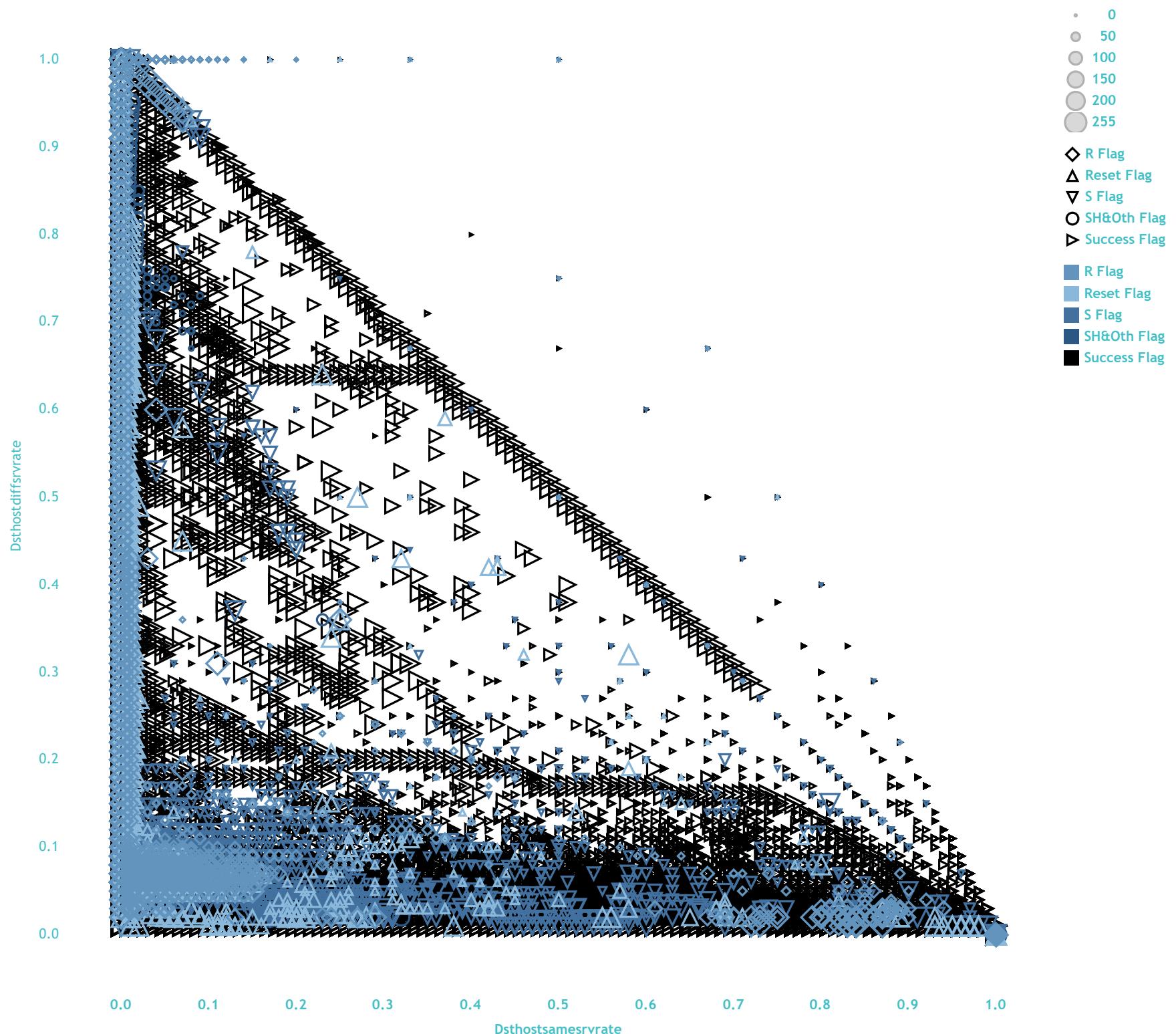
Count, Count, Diff_srv_count and Same_srv_count for each Flag_category. Color shows details about Count, Diff_srv_count and Same_srv_count. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Flag_category, which keeps R Flag, Reset Flag, S Flag, SH&Oth Flag and Success Flag.



Samesrvrate vs. Diffsrvrate. Color shows details about Flag_category. Size shows Count. Shape shows details about Flag_category. The data is filtered on Tooltip (Flag_category), which keeps 5 members.

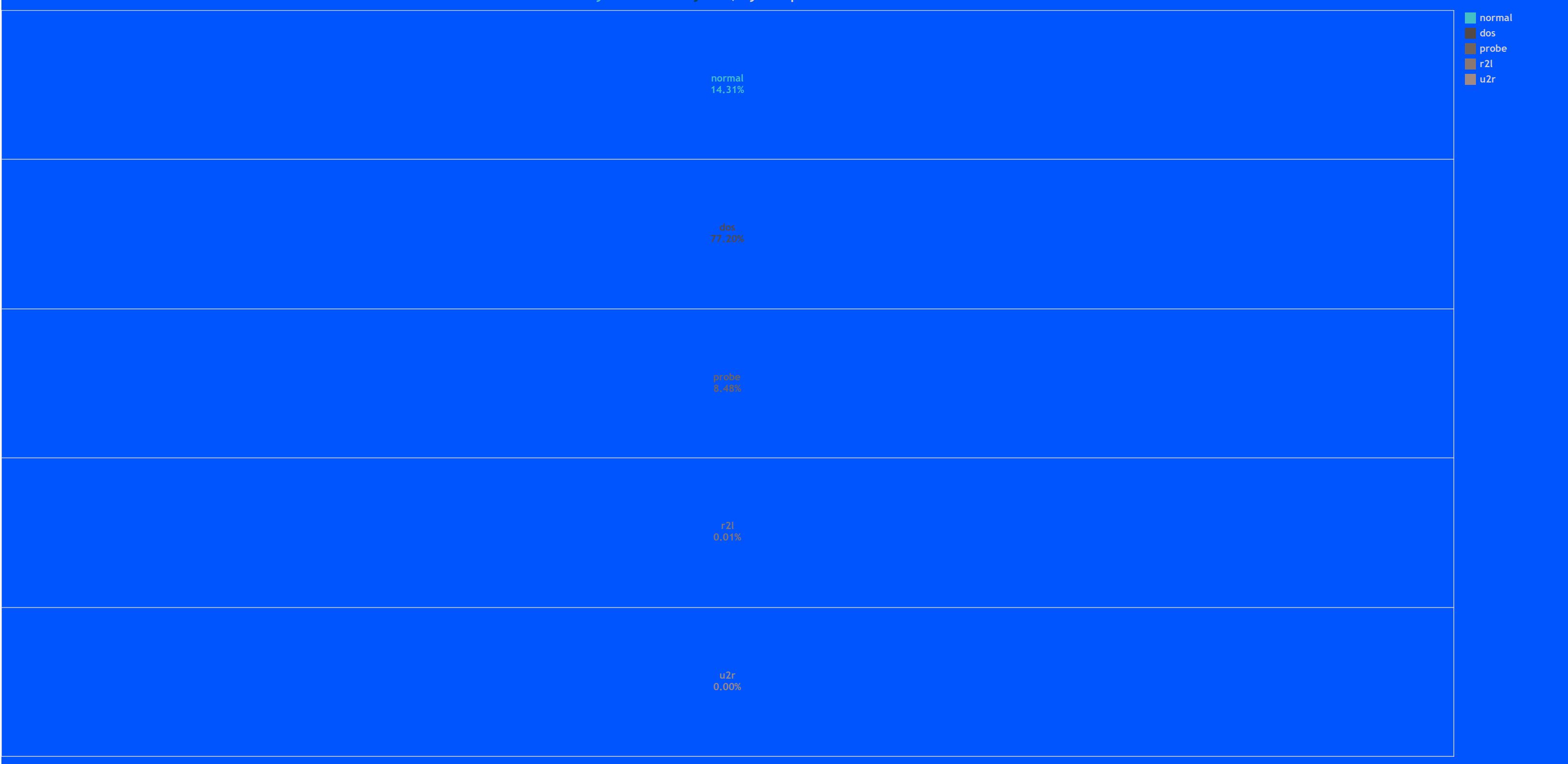


Dsthostcount, Dsthostcount, Dsthost_diff_srv_count and Dsthost_same_srv_count for each Flag_category. Color shows details about Dsthostcount, Dsthost_diff_srv_count and Dsthost_same_srv_count. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Flag_category, which keeps R Flag, Reset Flag, S Flag, SH&Oth Flag and Success Flag.



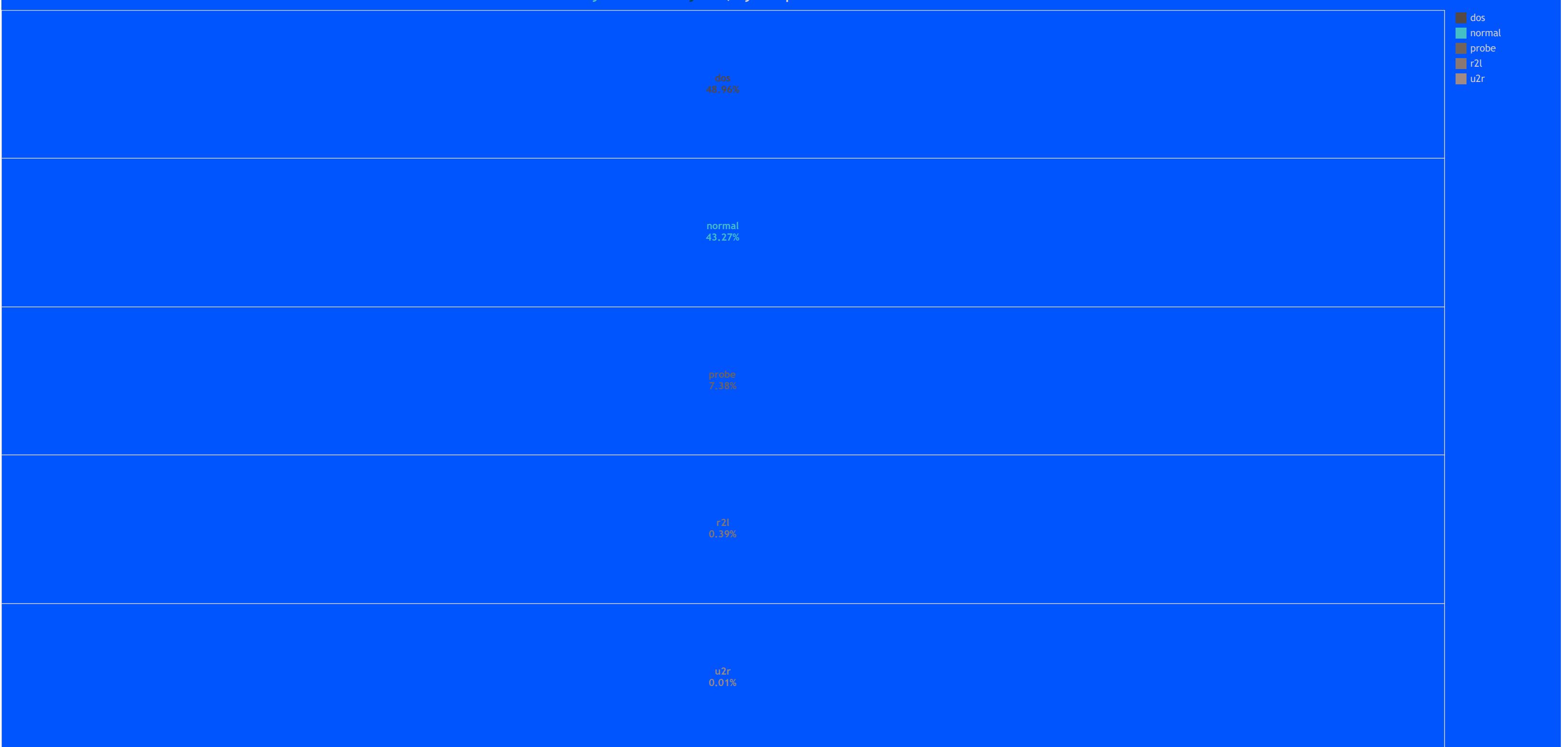
Dsthostsamevrate vs. Dsthostdiffvrate. Color shows details about Flag_category. Size shows Dsthostcount. Shape shows details about Flag_category. The data is filtered on Tooltip (Flag_category), which keeps 5 members.

►Dstbytes & Srcbytes | Bytes per Duration►



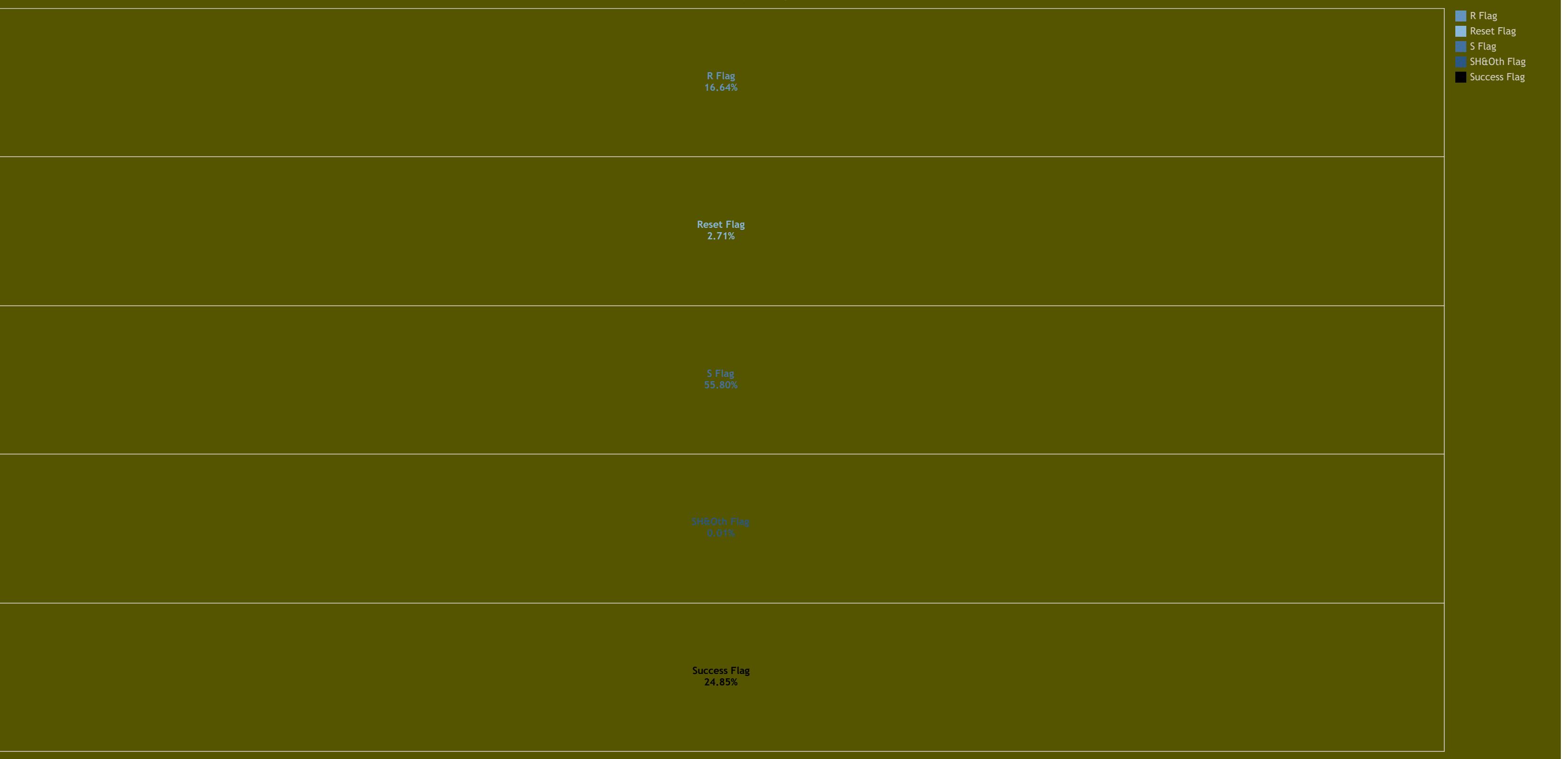
% of Total Count and Attack_category broken down by Attack_category. Color shows details about Attack_category. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members.

►Dstbytes & Srcbytes | Bytes per Duration►



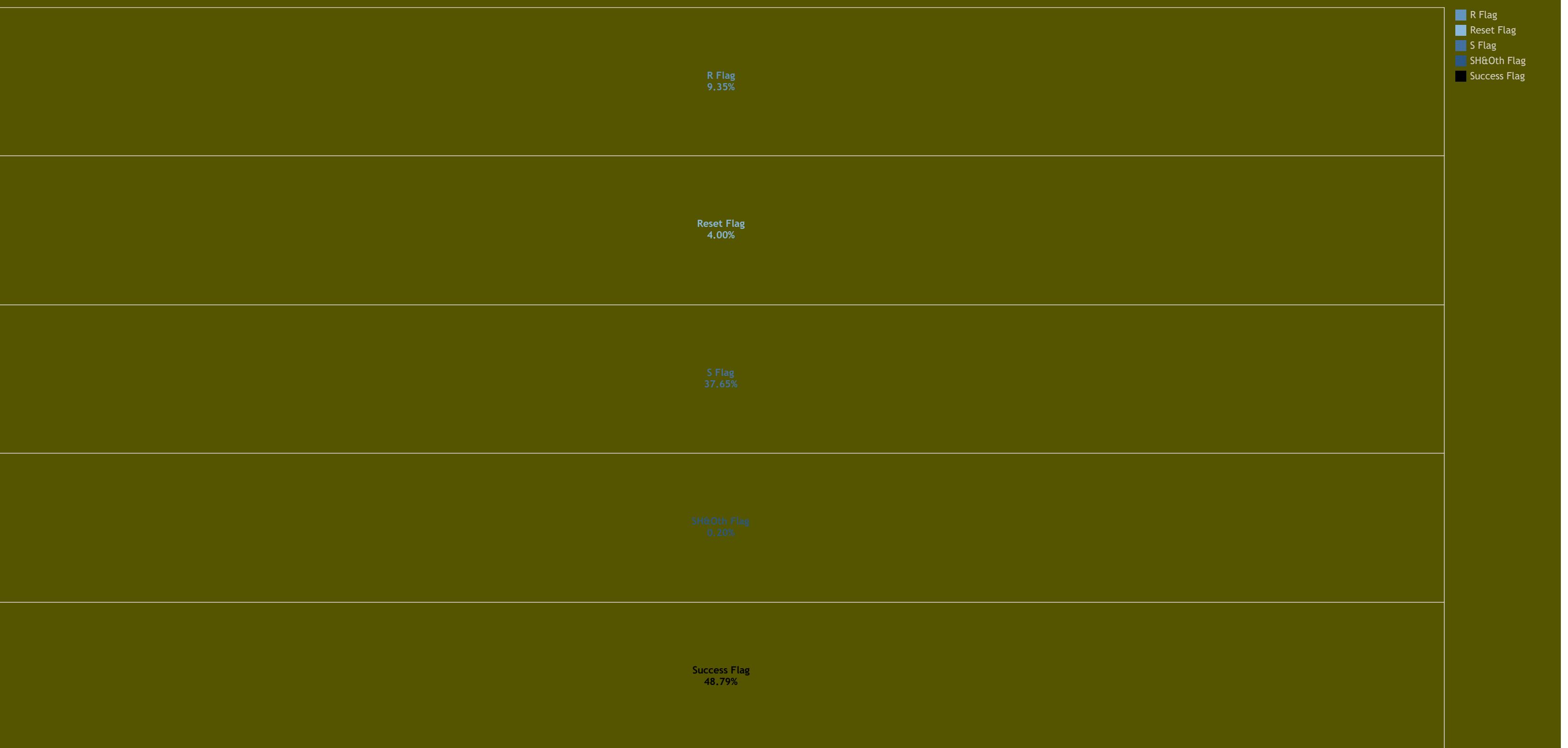
SUM([Dsthoscount]) / TOTAL(SUM([Dsthoscount])) and Attack_category broken down by Attack_category. Color shows details about Attack_category. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members.

➡Dstbytes & Srcbytes | Bytes per Duration➡



% of Total Count and Flag_category broken down by Flag_category. Color shows details about Flag_category. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members.

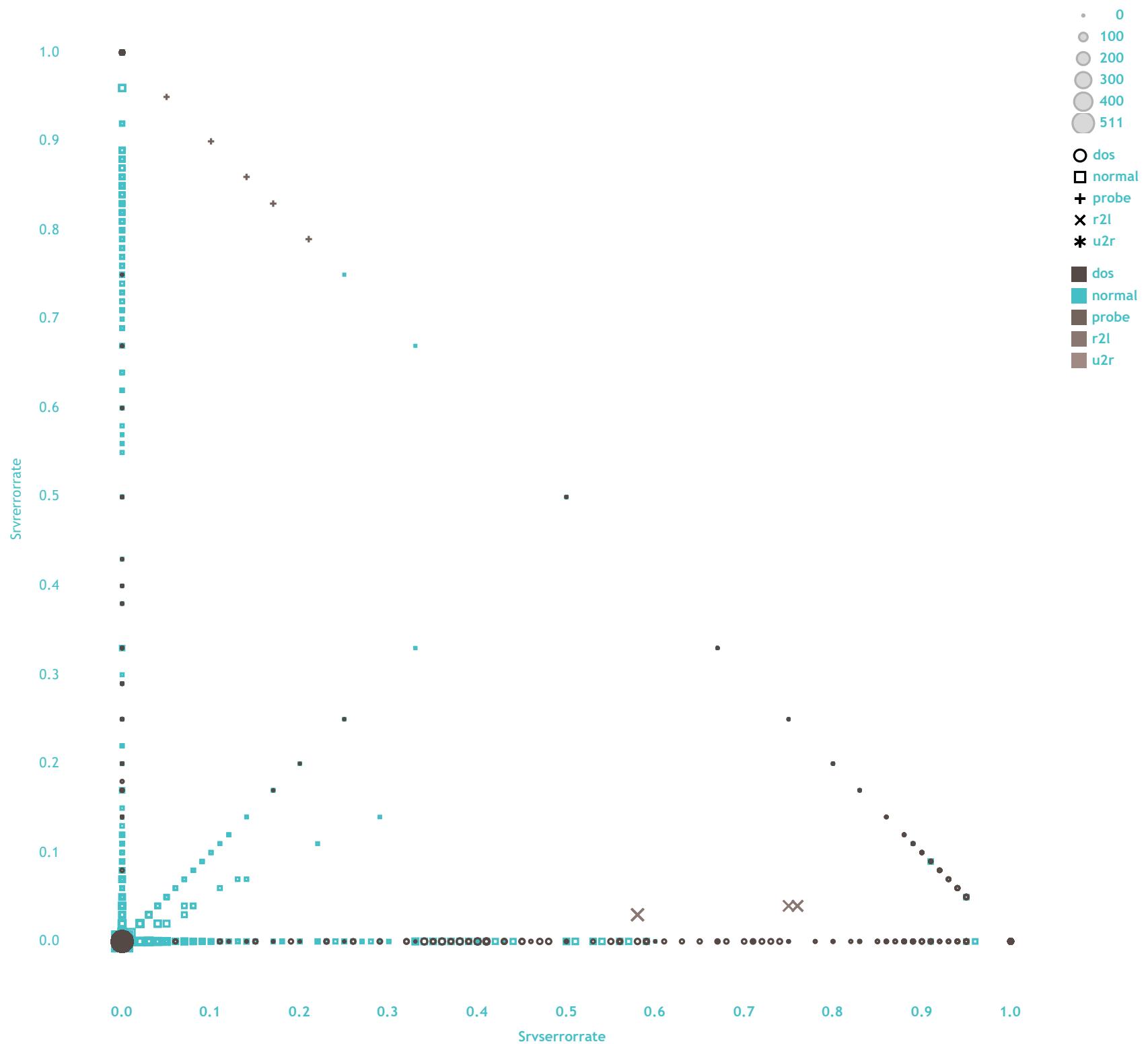
➡Dstbytes & Srcbytes | Bytes per Duration➡



SUM([Dsthoscount]) / TOTAL(SUM([Dsthoscount])) and Flag_category broken down by Flag_category. Color shows details about Flag_category. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members.

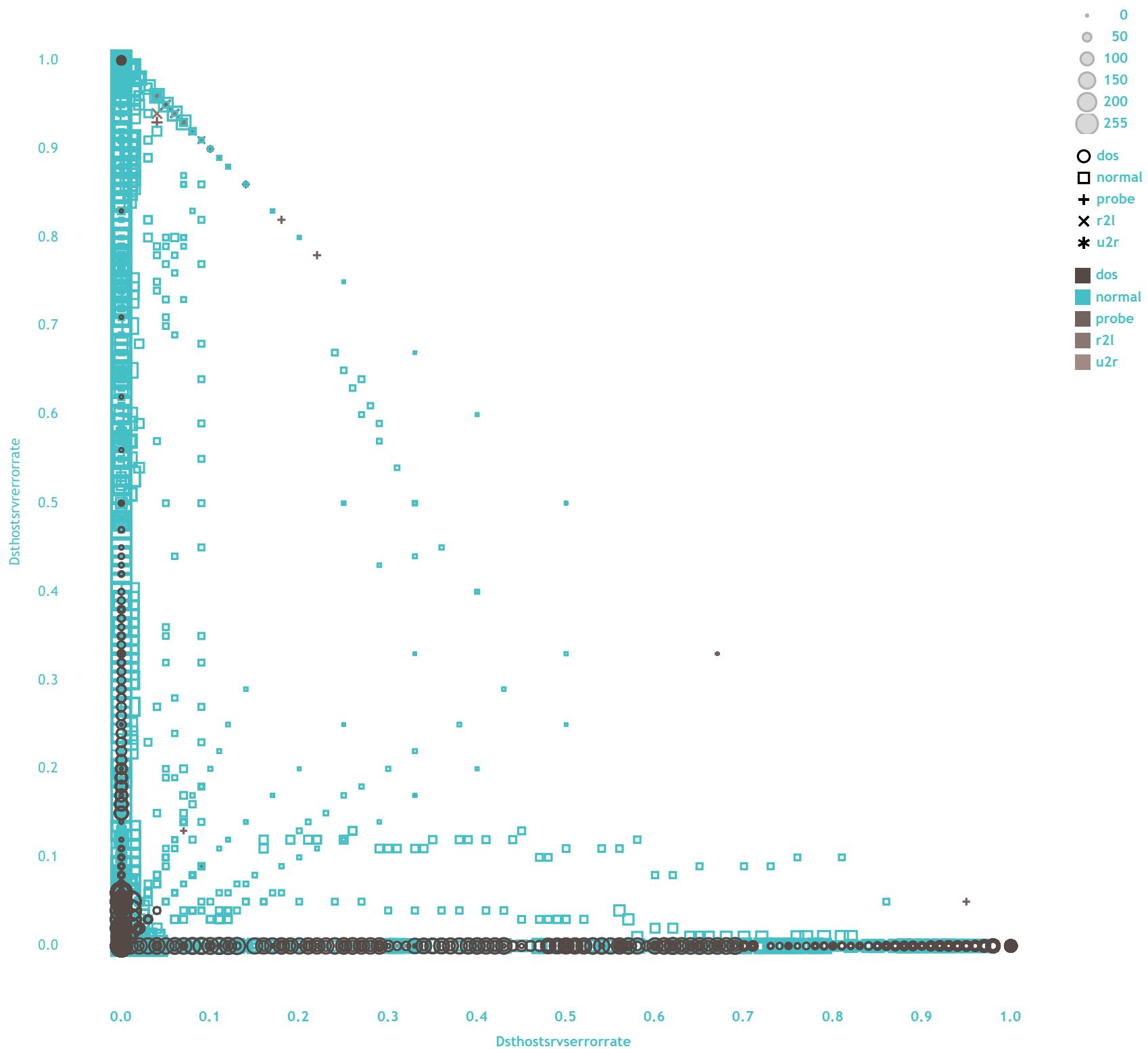


-SUM([Srvcount]), -SUM([Srvcount]), -SUM([R_errors_srv_count]) and -SUM([S_errors_srv_count]) for each Attack_category. Color shows details about -SUM([Srvcount]), -SUM([R_errors_srv_count]) and -SUM([S_errors_srv_count]). The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Attack_category, which keeps dos, normal, probe, r2l and u2r.

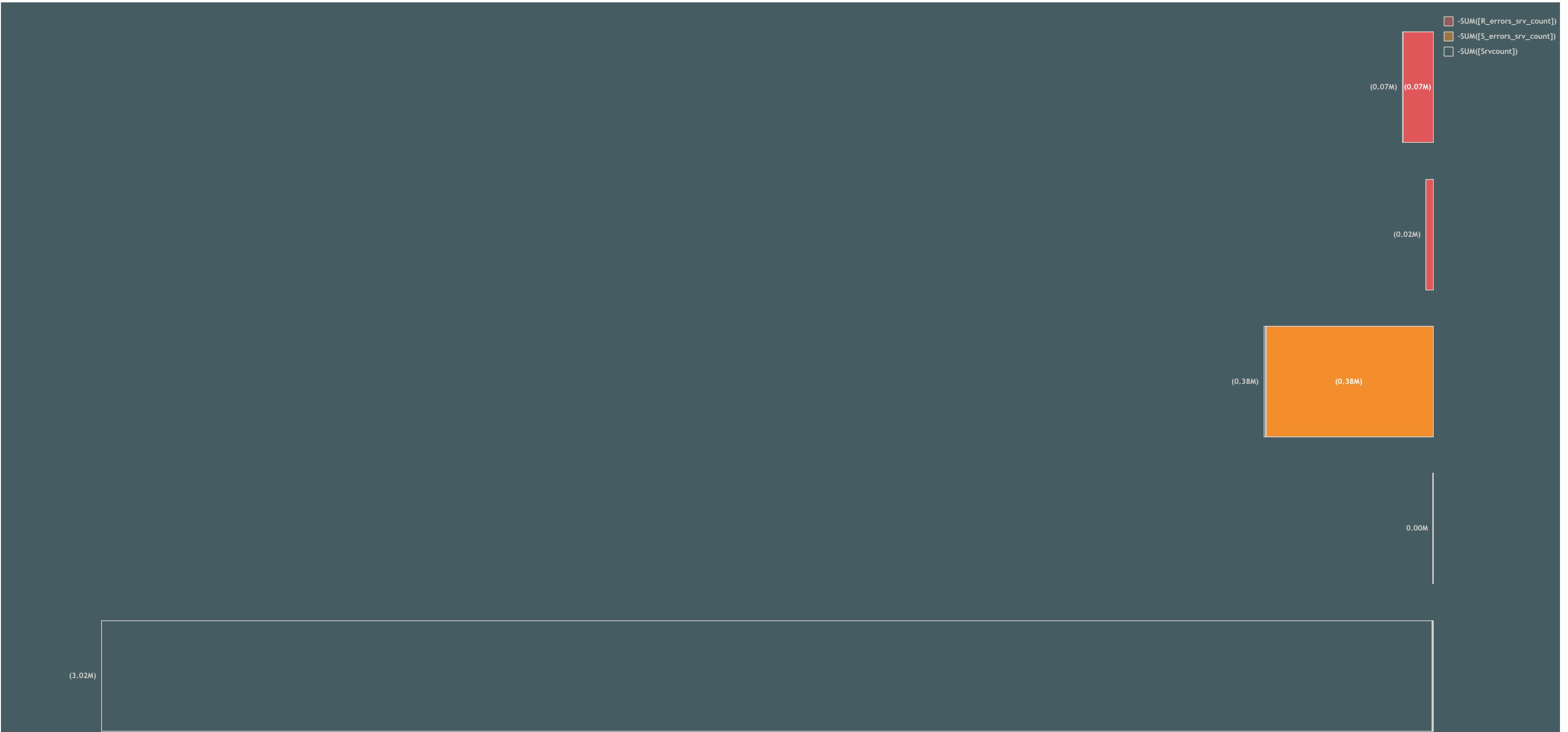


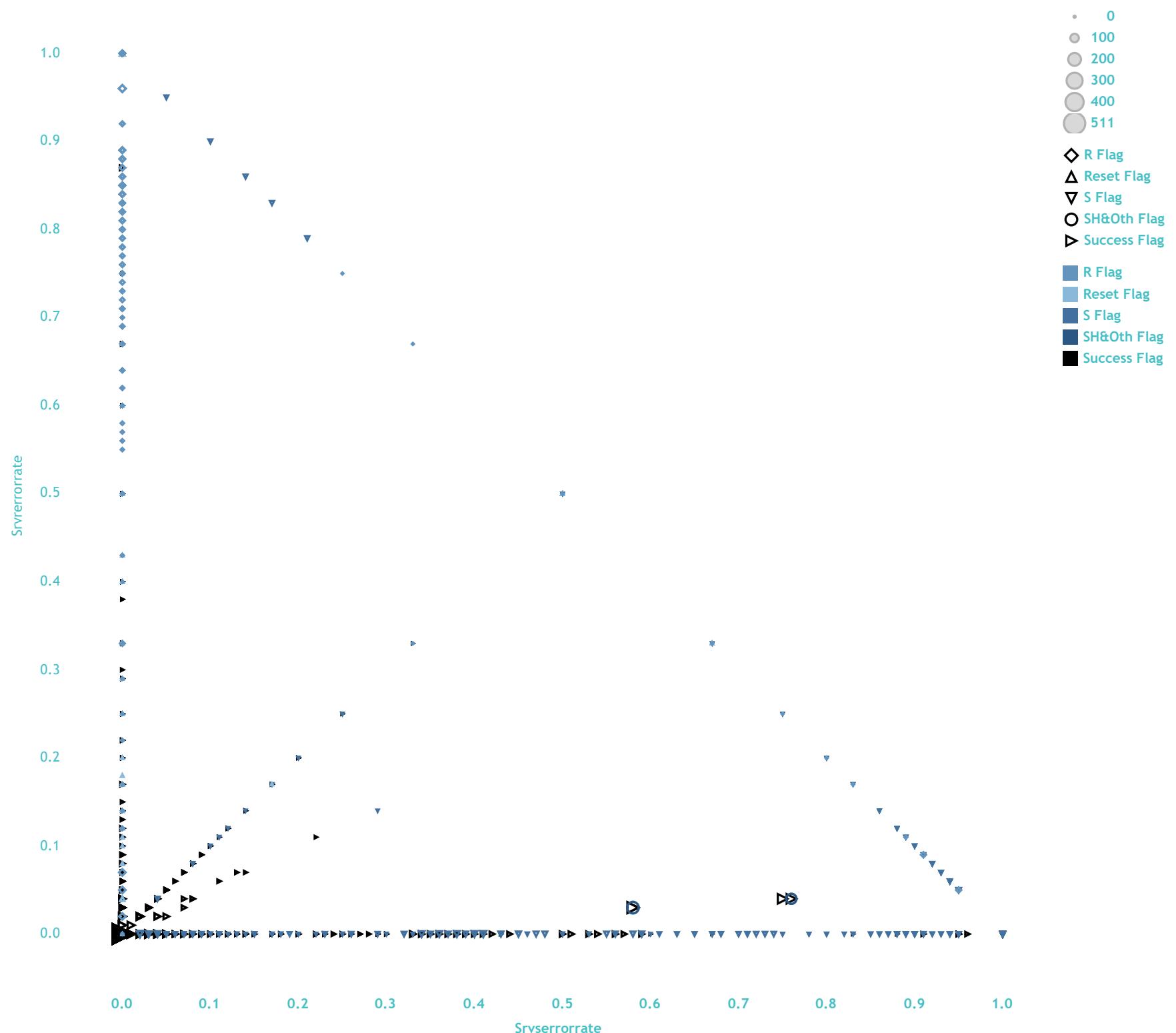
Srvserrorrate vs. Srvrerrorrate. Color shows details about Attack_category. Size shows Srvcount. Shape shows details about Attack_category. The data is filtered on Tooltip (Attack_category), which keeps 5 members.





Dsthostsrvserrorrate vs. Dsthostsrvrrorrate. Color shows details about Attack_category. Size shows Dsthostsrvcount. Shape shows details about Attack_category. The data is filtered on Tooltip (Attack_category), which keeps 5 members.

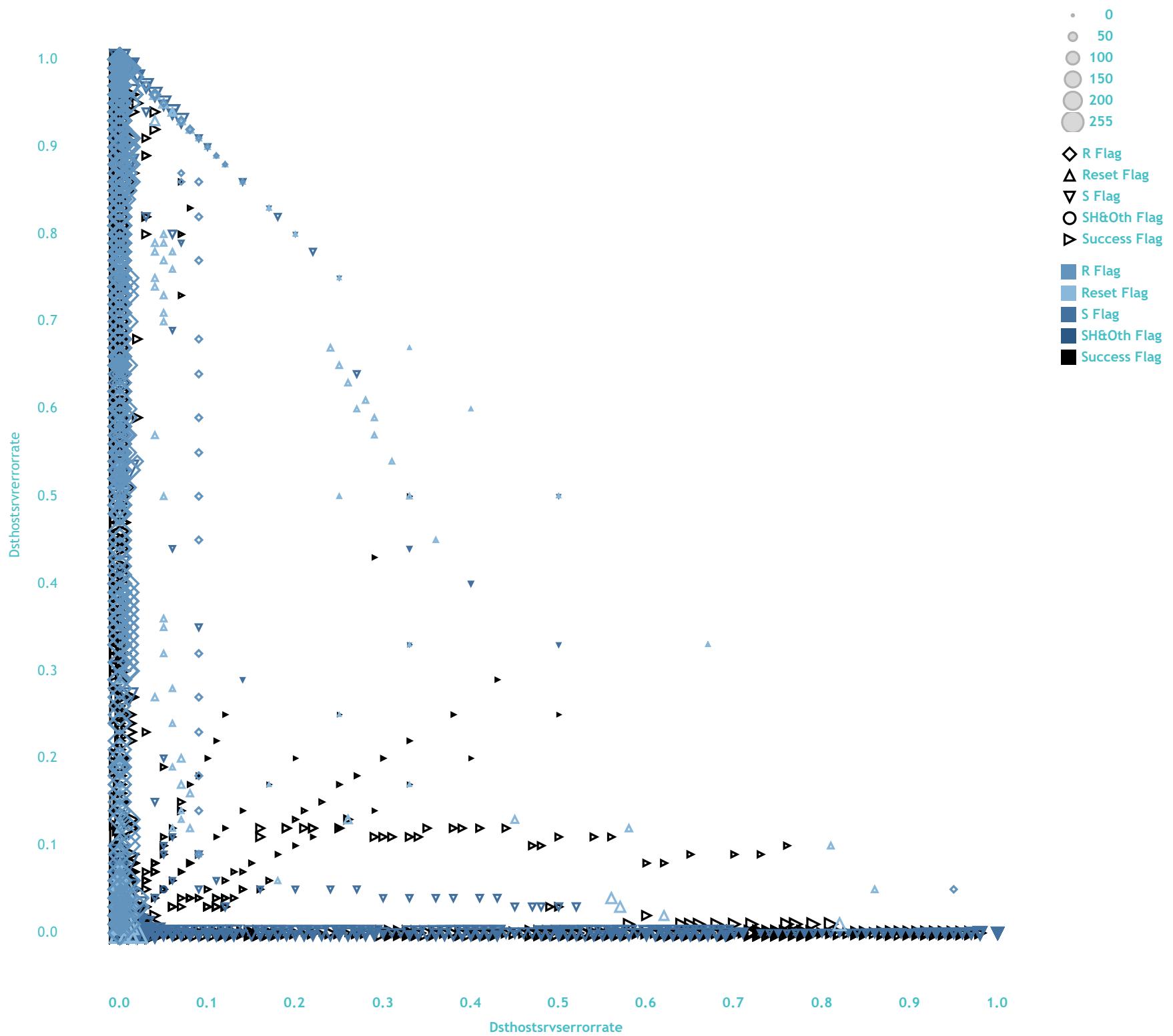




Srvserrorrate vs. Srvrerrorrate. Color shows details about Flag_category. Size shows Srvcount. Shape shows details about Flag_category. The data is filtered on Tooltip (Flag_category), which keeps 5 members.



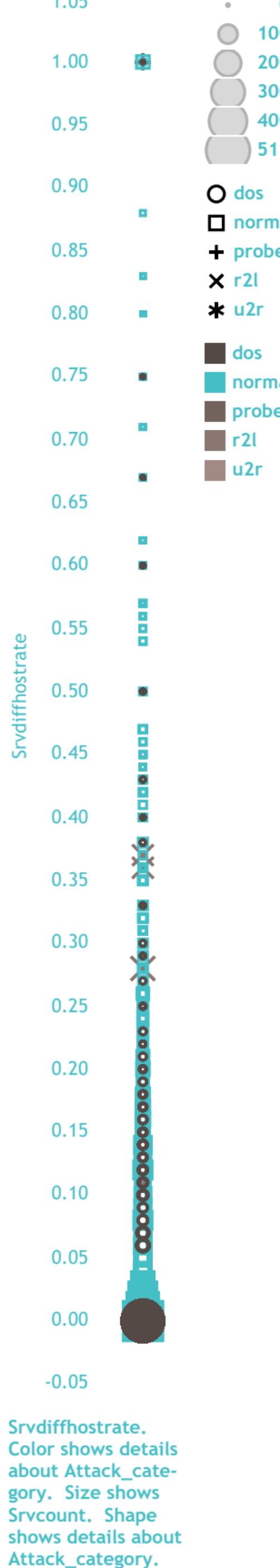
-SUM([Dsthostsvcount]), -SUM([Dsthostsvcount]), -SUM([Dsthost_R_errors_srv_count]) and -SUM([Dsthost_S_errors_srv_count]) for each Flag_category. Color shows details about -SUM([Dsthostsvcount]), -SUM([Dsthost_R_errors_srv_count]) and -SUM([Dsthost_S_errors_srv_count]). The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Flag_category, which keeps R Flag, Reset Flag, S Flag, SH&Oth Flag and Success Flag.



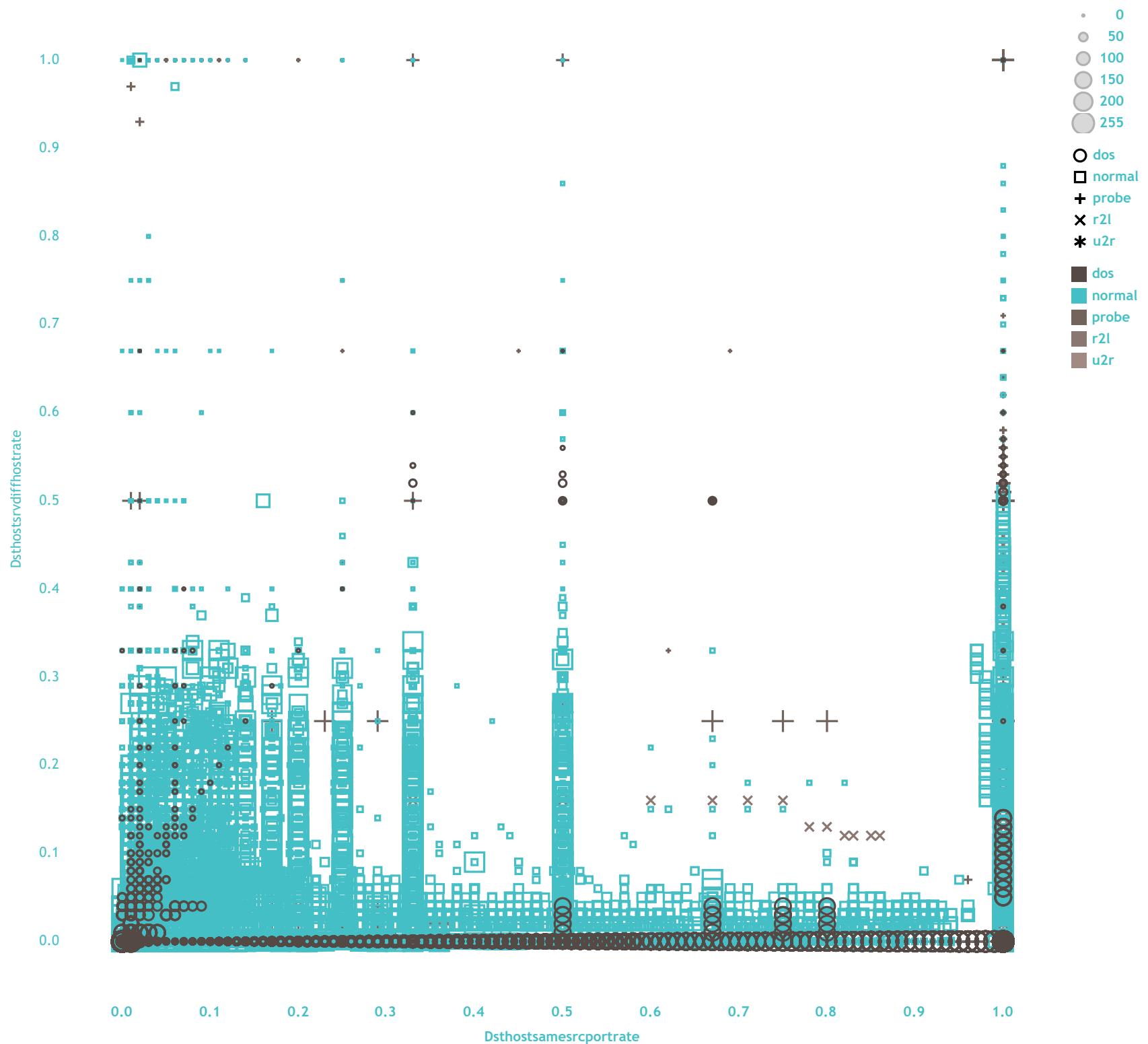
Dsthostsrvserrorrate vs. Dsthostsrvrrorrate. Color shows details about Flag_category. Size shows Dsthostsrvcount. Shape shows details about Flag_category. The data is filtered on Tooltip (Flag_category), which keeps 5 members.



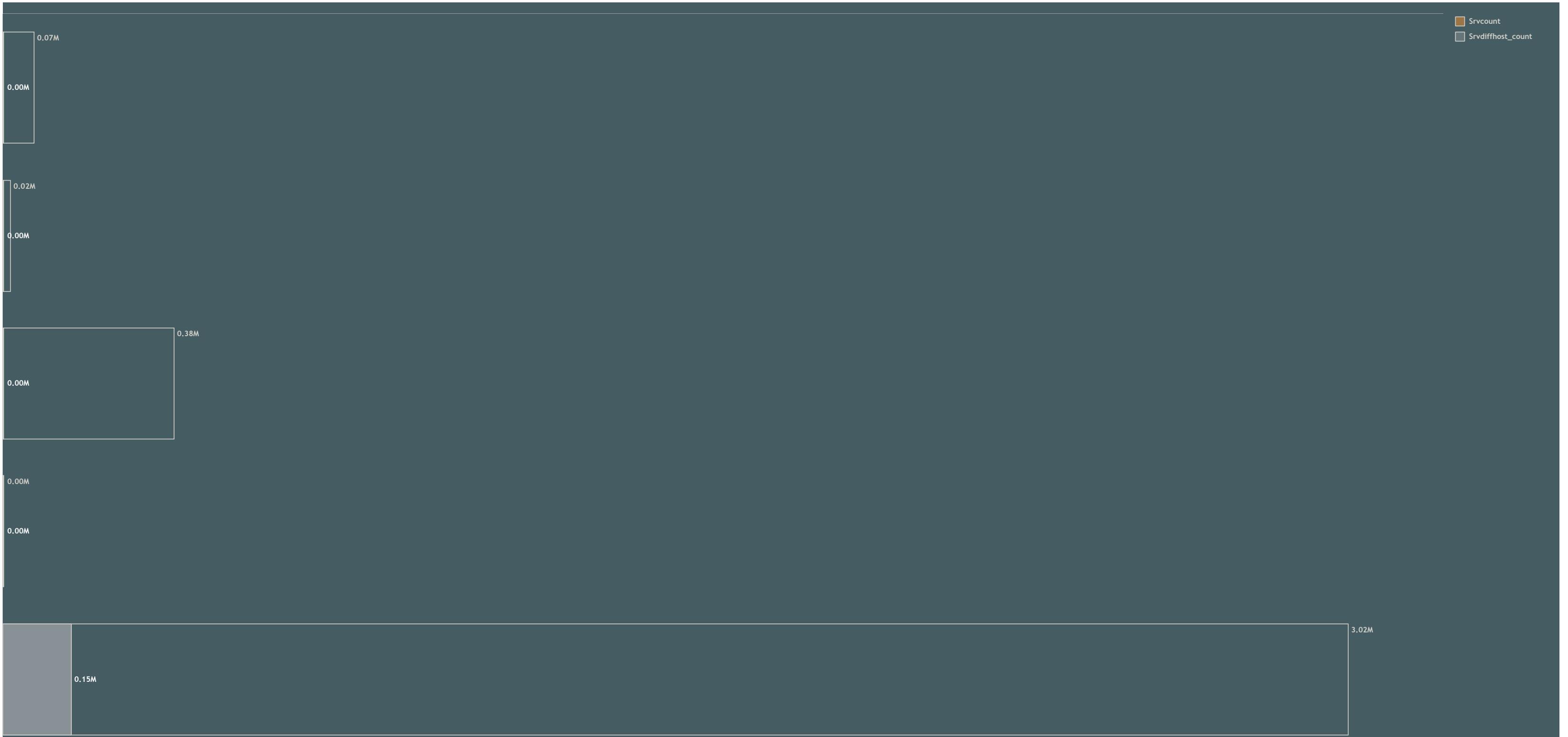
Srvcount and Srvdiffhost_count for each Attack_category. Color shows details about Srvcount and Srvdiffhost_count. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Attack_category, which keeps dos, normal, probe, r2l and u2r.



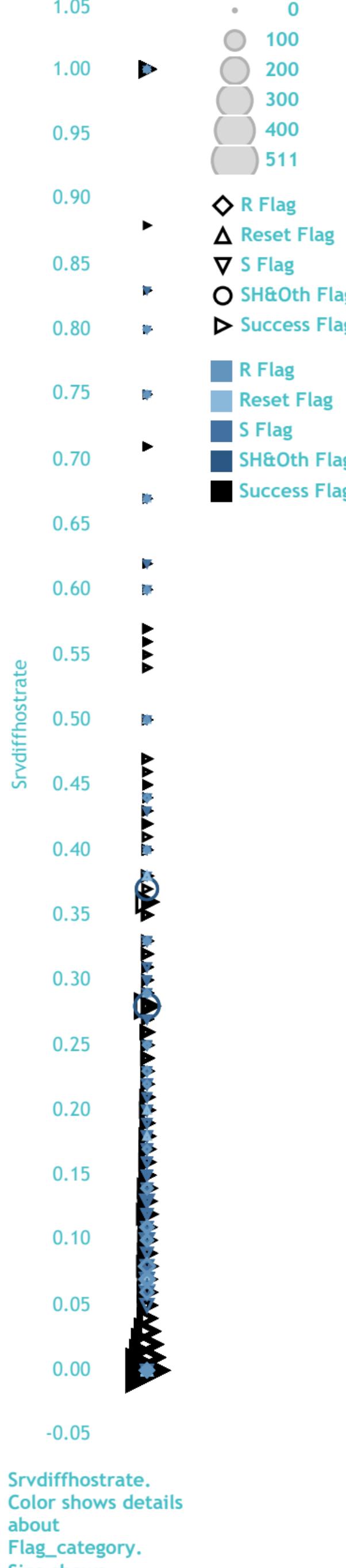




Dsthostsamesrcportrate vs. Dsthostsvrdiffhostrate. Color shows details about Attack_category. Size shows Dsthostsrvcount. Shape shows details about Attack_category. The data is filtered on Tooltip (Attack_category), which keeps 5 members.



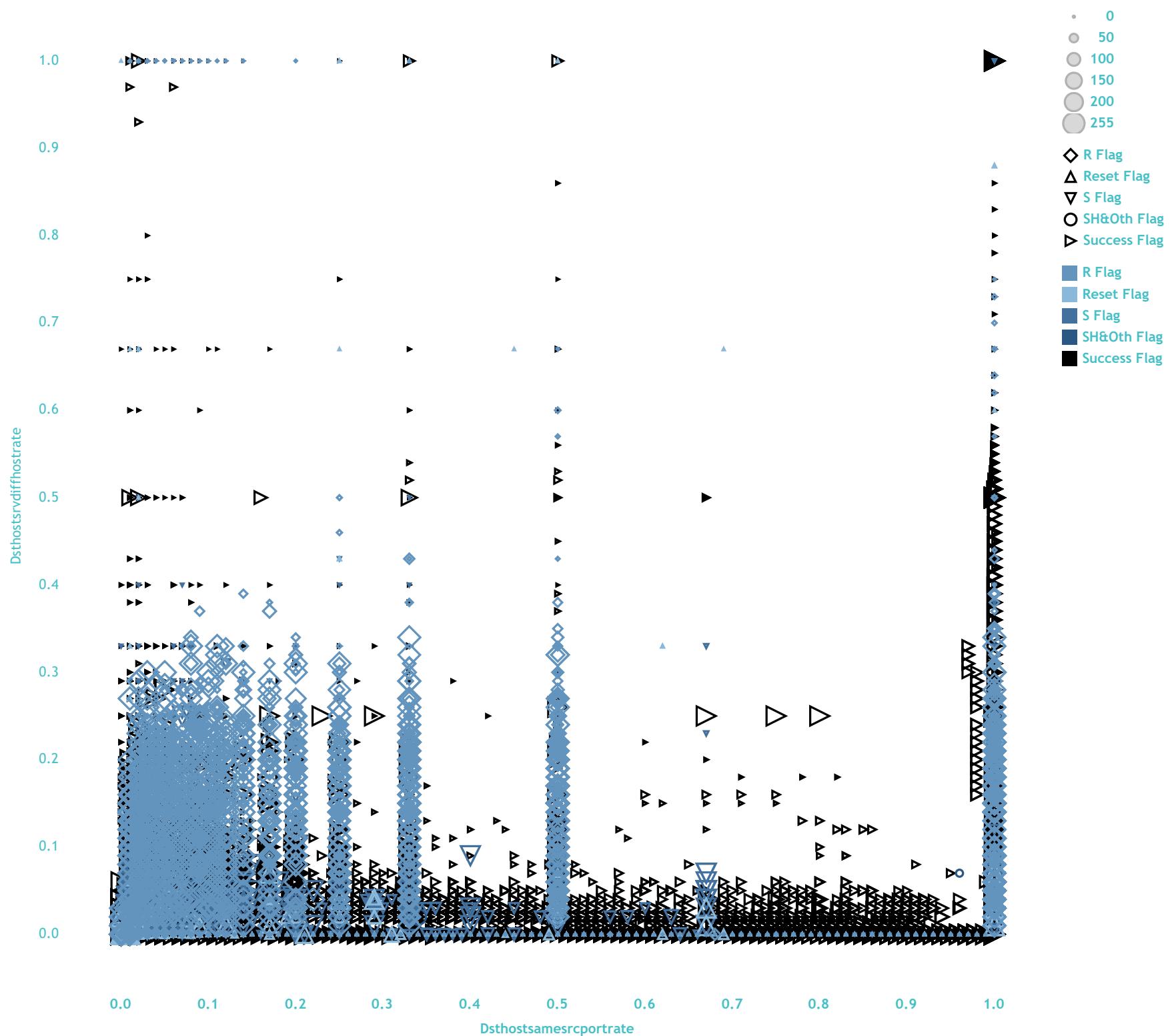
Srvcount and Srvdiffhost_count for each Flag_category. Color shows details about Srvcount and Srvdiffhost_count. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Flag_category, which keeps R Flag, Reset Flag, S Flag, SH&Oth Flag and Success Flag.



Srvdiffhostrate.
Color shows details
about
Flag_category.
Size shows
Srvcount. Shape
shows details about
Flag_category. The
data is filtered on
Tooltip (**Flag_cate-**
gory), which keeps
5 members.

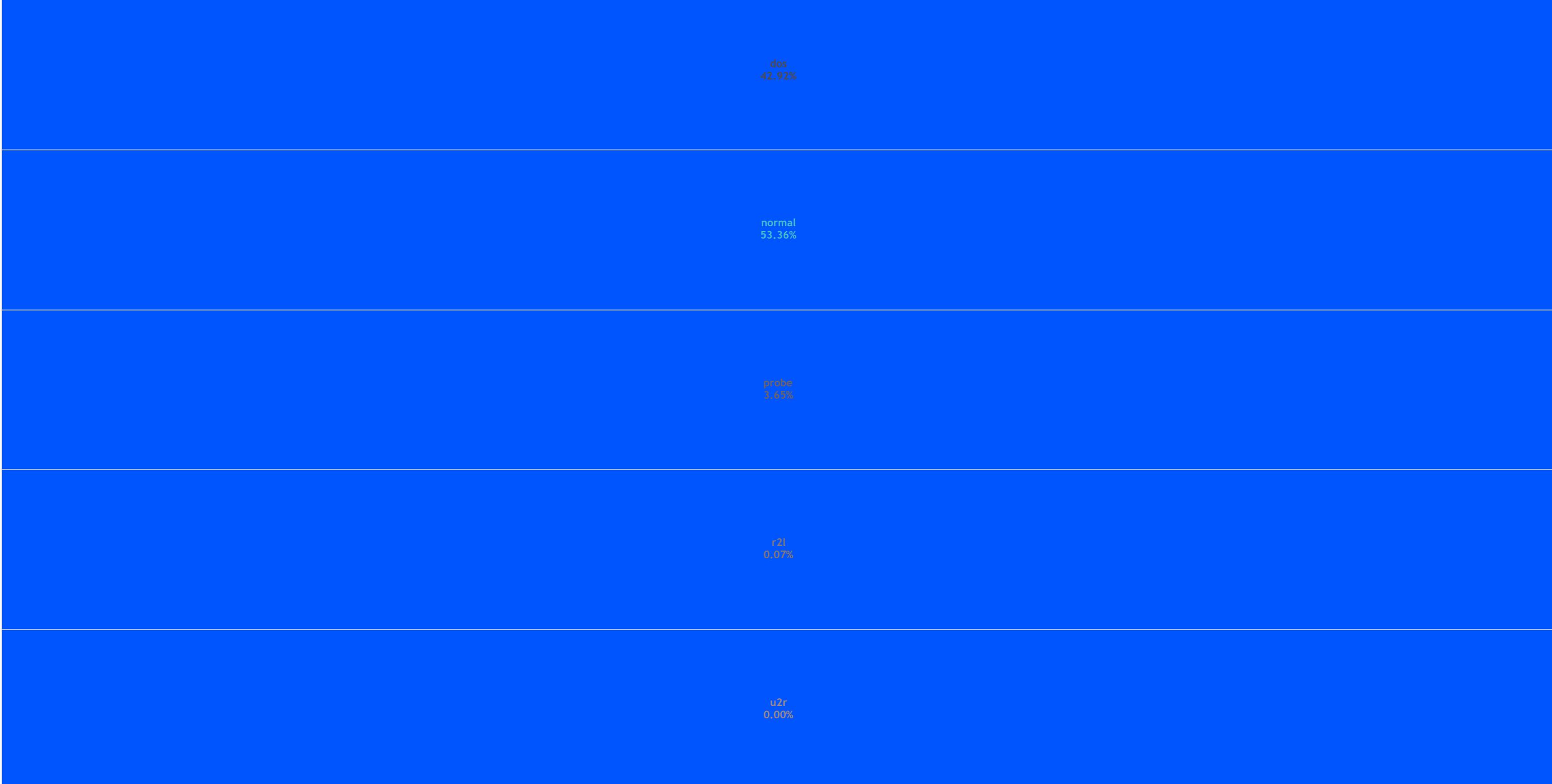


Dsthostsvrcount, Dsthostsrvcount, Dsthost_srv_diff_host_srv_count and Dsthost_same_src_port_srv_count for each Flag_category. Color shows details about Dsthostsvrcount, Dsthost_srv_diff_host_srv_count and Dsthost_same_src_port_srv_count. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members. The view is filtered on Flag_category, which keeps R Flag, Reset Flag, S Flag, SH&0th Flag and Success Flag.



Dsthostsamesrcportrate vs. Dsthostsrvdiffhostrate. Color shows details about Flag_category. Size shows Dsthostsrvcount. Shape shows details about Flag_category. The data is filtered on Tooltip (Flag_category), which keeps 5 members.

►Dstbytes & Srcbytes | Bytes per Duration►



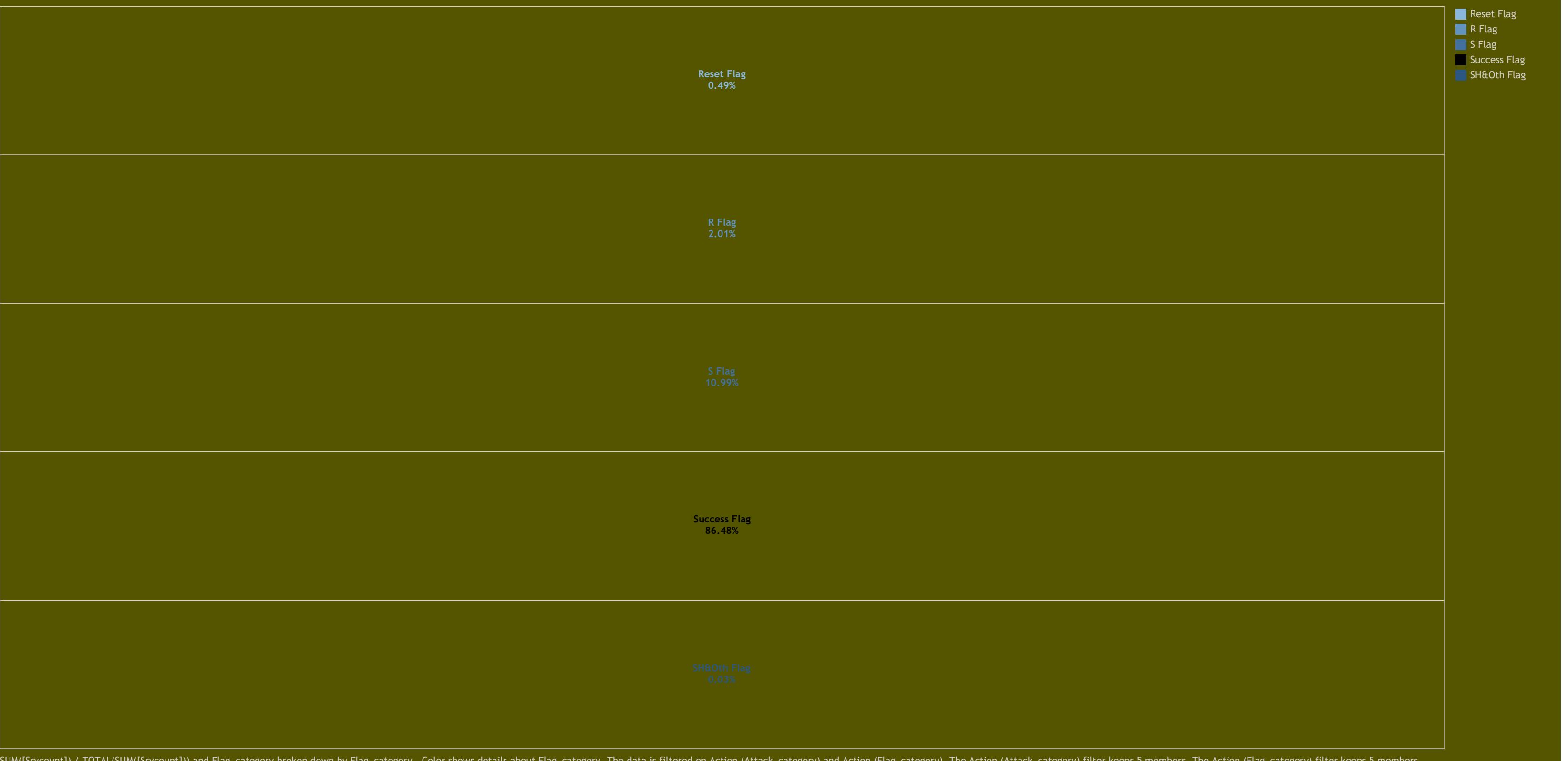
SUM([Srvcount]) / TOTAL(SUM([Srvcount])) and Attack_category broken down by Attack_category. Color shows details about Attack_category. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members.

►Dstbytes & Srcbytes | Bytes per Duration►



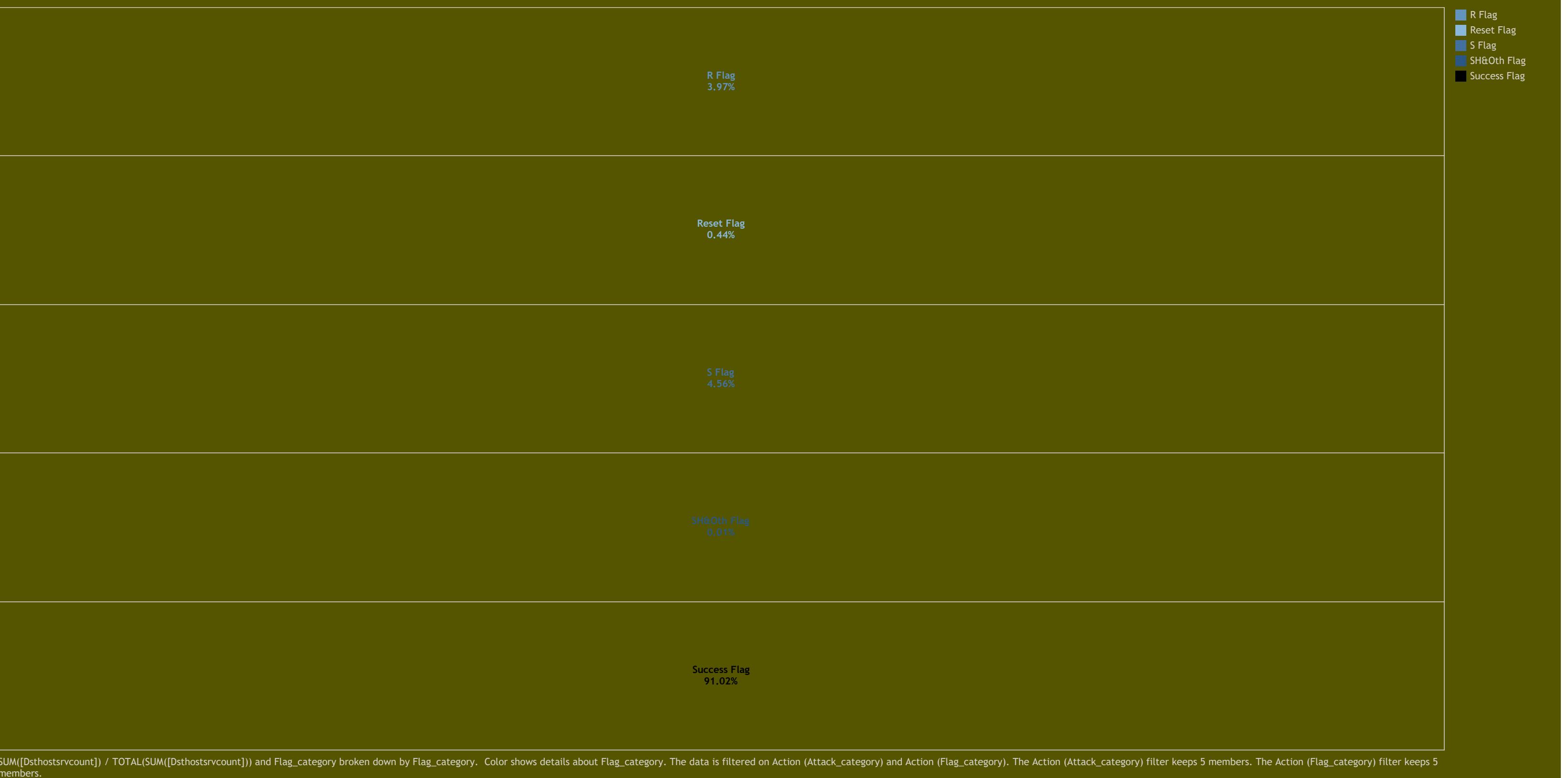
SUM([Dsthosrvcount]) / TOTAL(SUM([Dsthosrvcount])) and Attack_category broken down by Attack_category. Color shows details about Attack_category. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members.

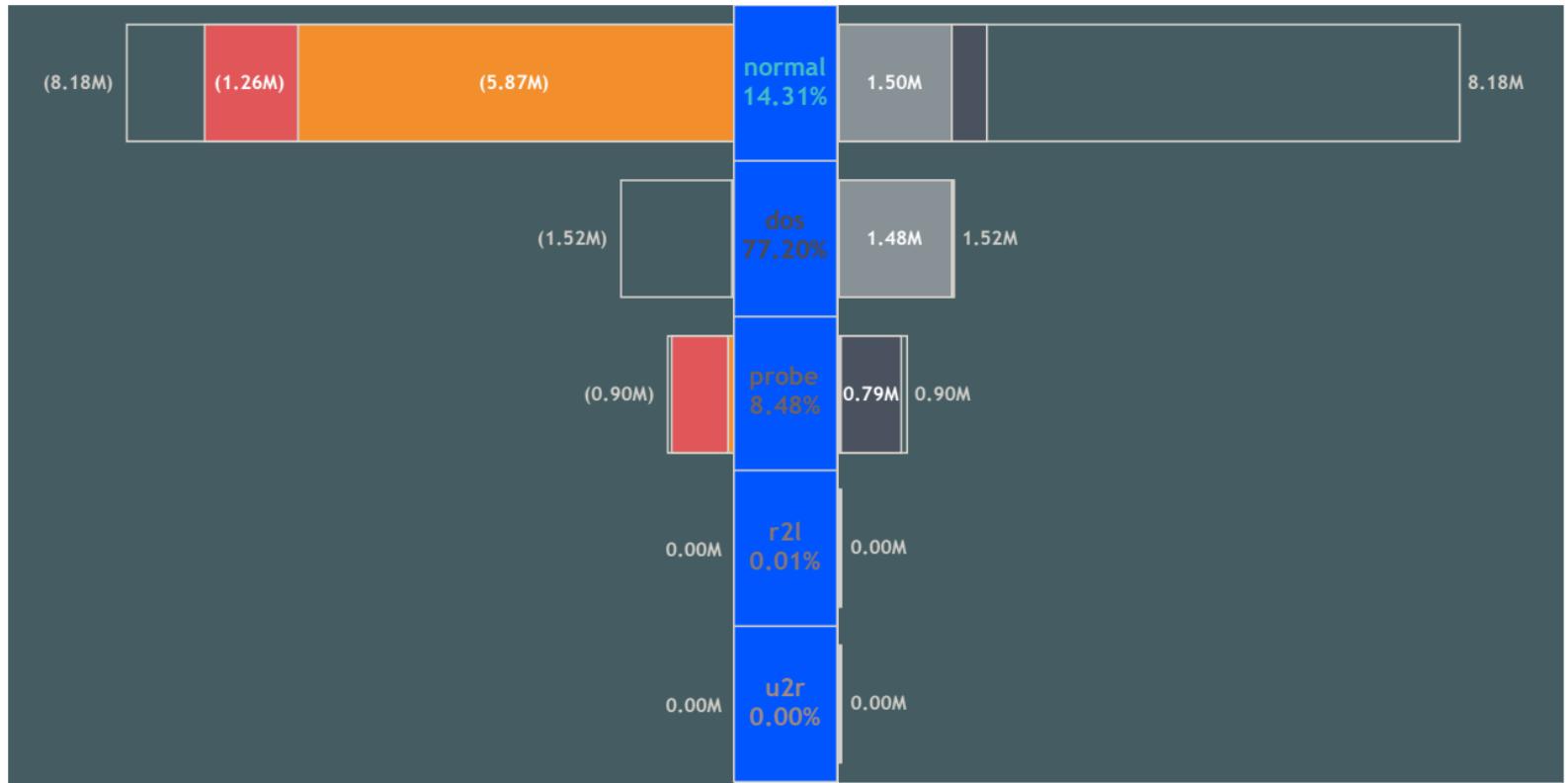
➡Dstbytes & Srcbytes | Bytes per Duration➡

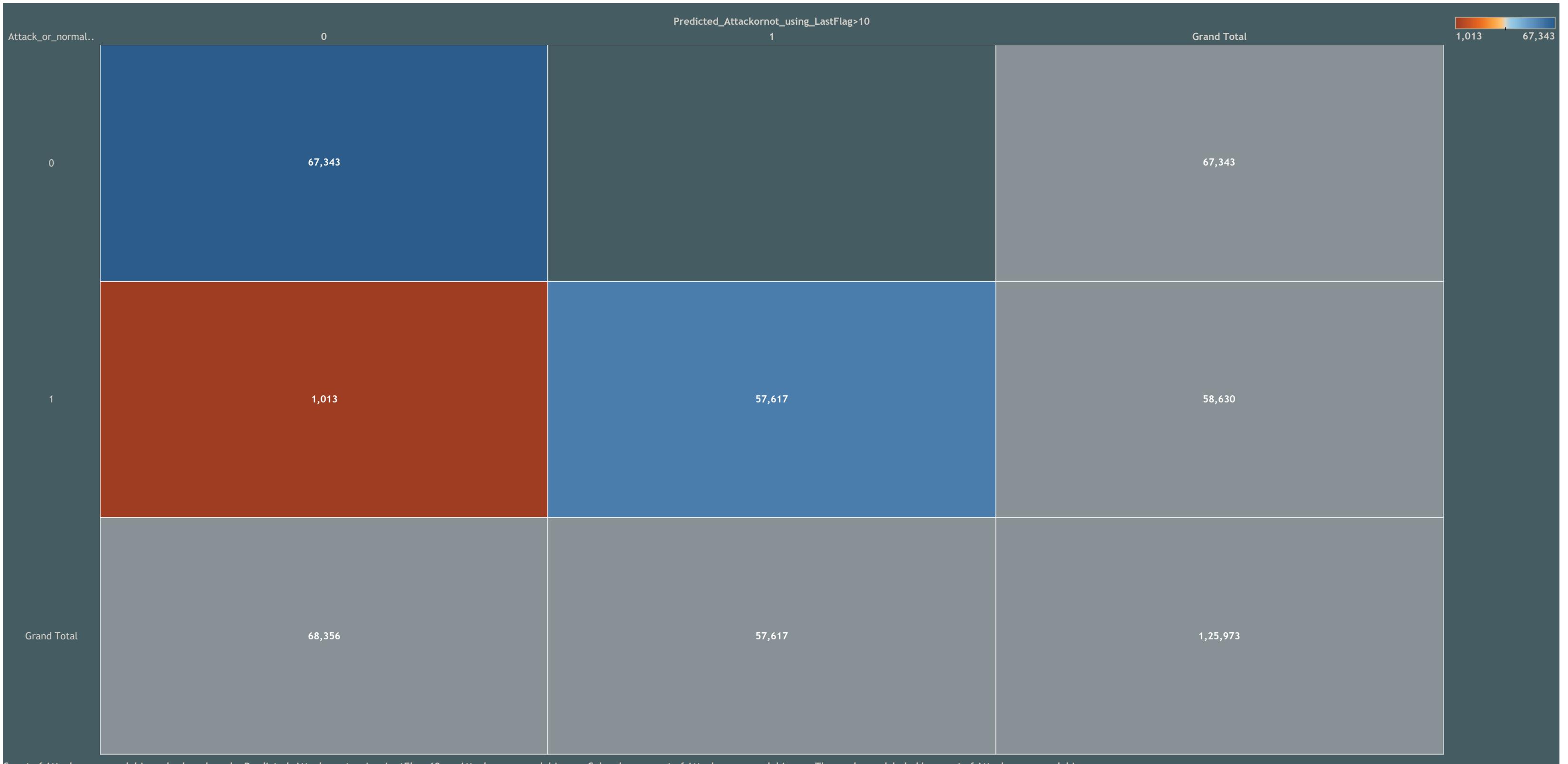


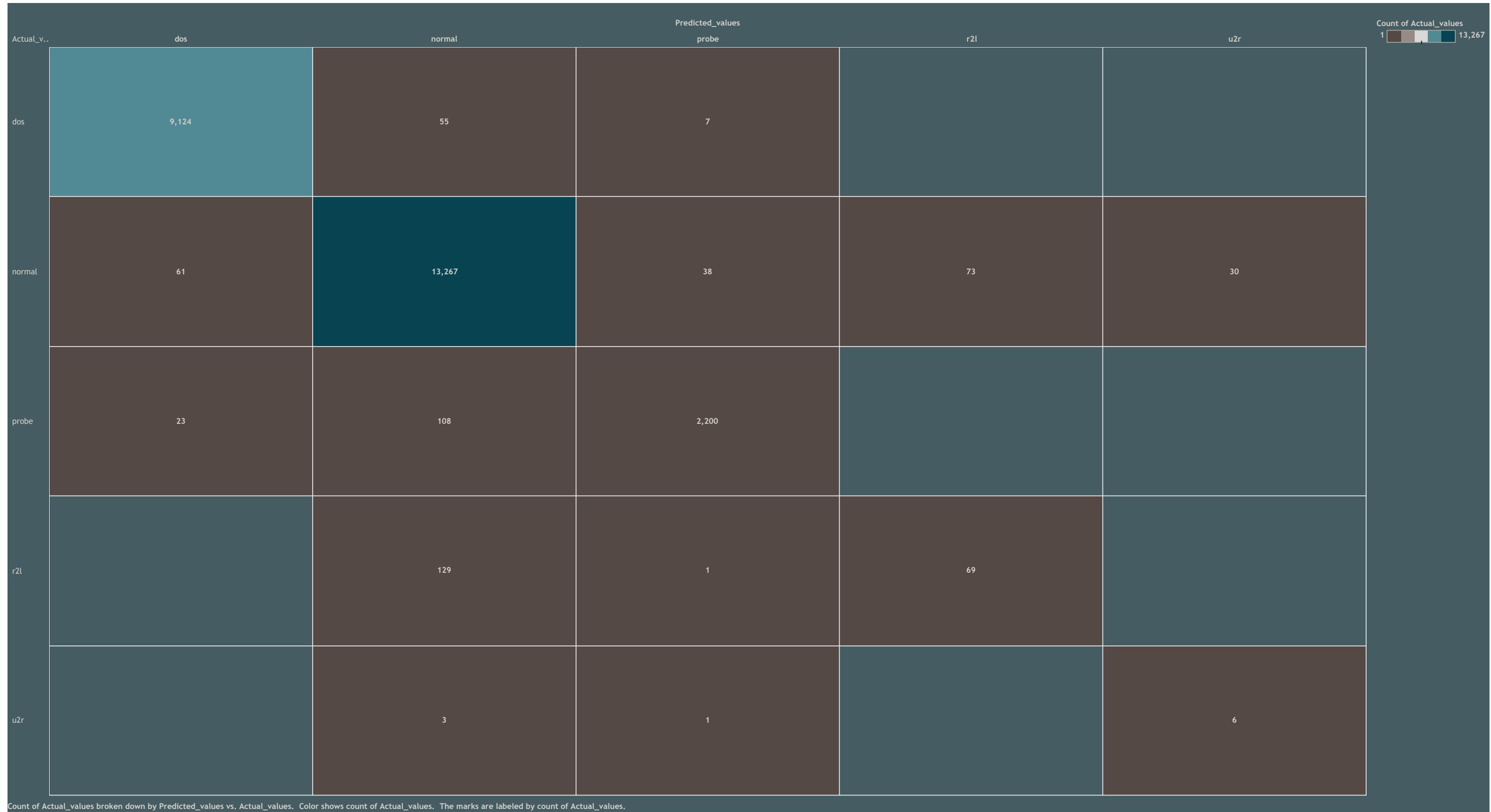
SUM([Srvcount]) / TOTAL(SUM([Srvcount])) and Flag_category broken down by Flag_category. Color shows details about Flag_category. The data is filtered on Action (Attack_category) and Action (Flag_category). The Action (Attack_category) filter keeps 5 members. The Action (Flag_category) filter keeps 5 members.

►Dstbytes & Srcbytes | Bytes per Duration►



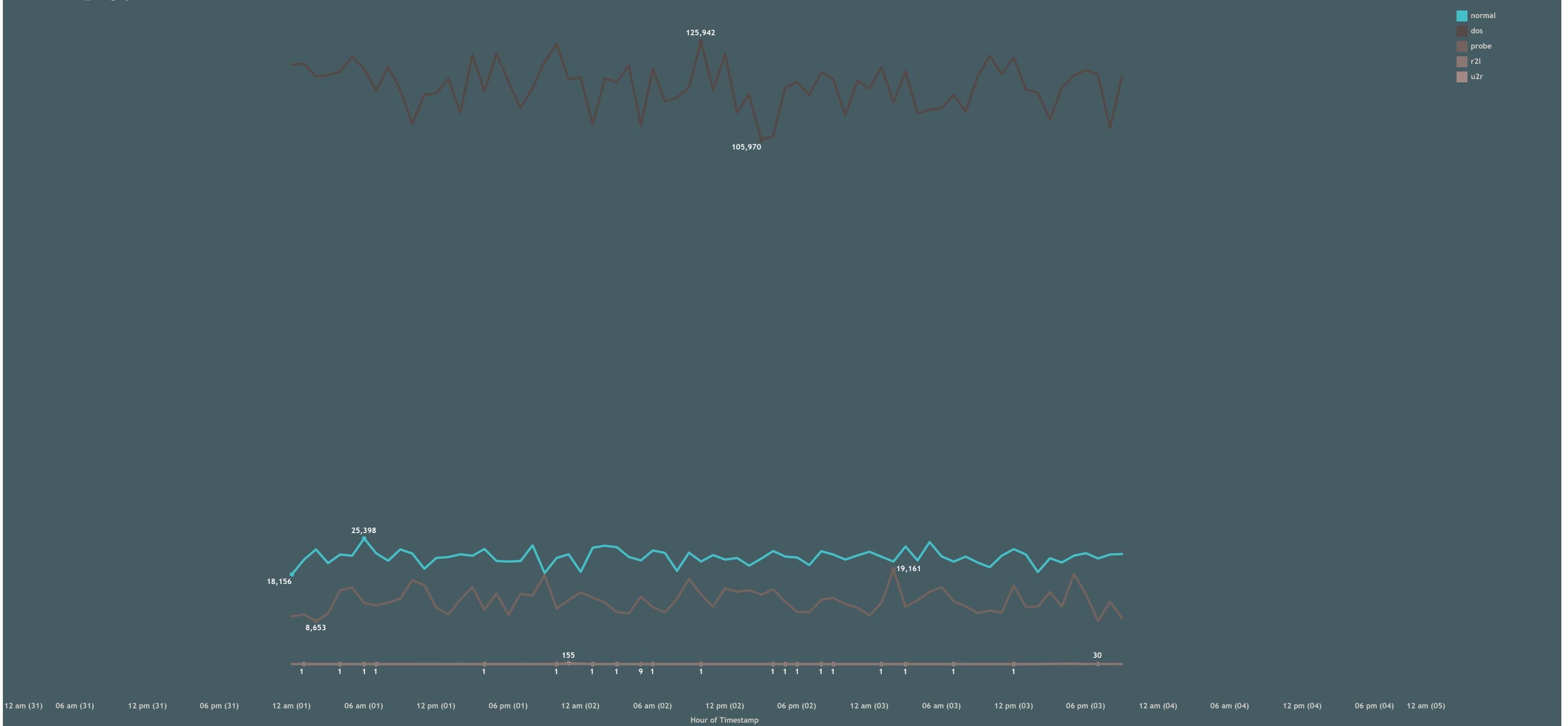




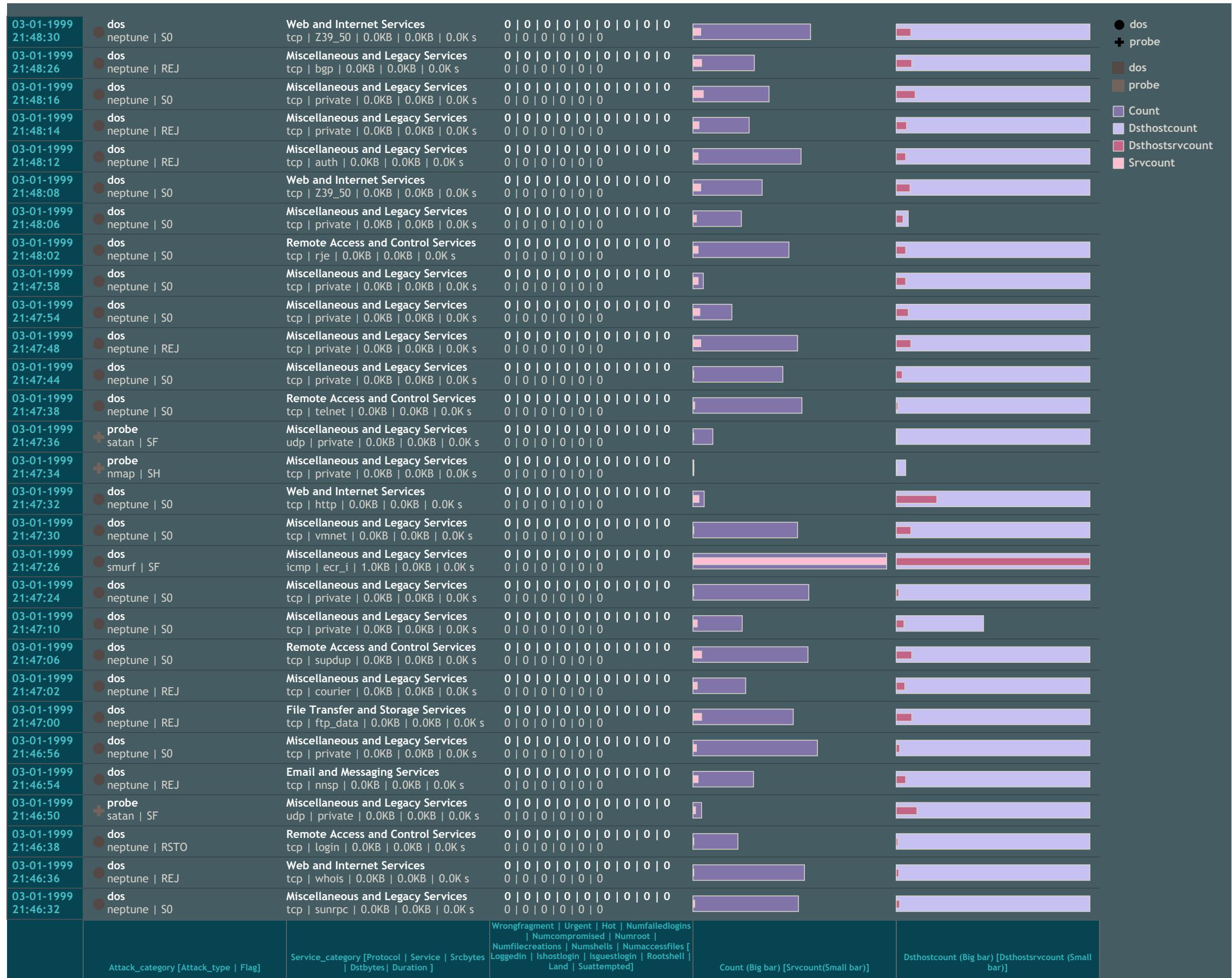


Test Data Accuracy: 97.90%

Count wrt Attack_category



The trend of Count for Timestamp Hour. Color shows details about Attack_category. The data is filtered on Action (Attack_category), which keeps 5 members. The view is filtered on Attack_category and Timestamp Hour. The Attack_category filter keeps dos, normal, probe, r2l and u2r. The Timestamp Hour filter includes everything.



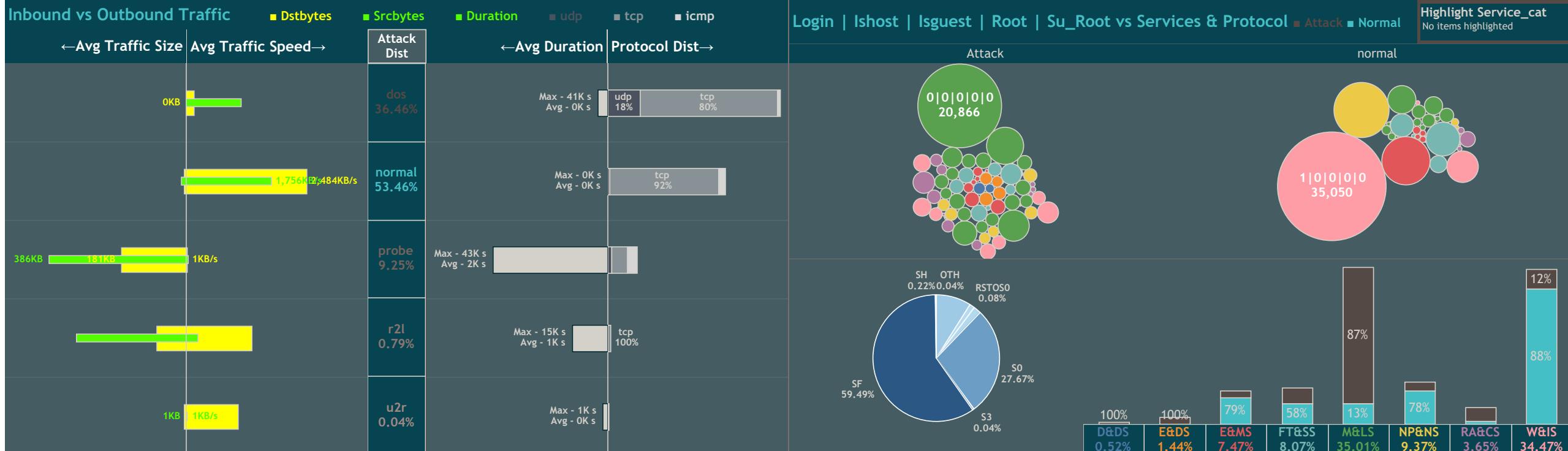
Avg(-1.0), Avg(-1.0), Avg(-1.0), Count, Srvcount, Dsthostcount and Dsthostsrvcount for each Timestamp. For pane Avg(-1.0): Color shows details about Attack_category. Shape shows details about Attack_category. The marks are labeled by Attack_category, Attack and Flag. For pane Avg(-1.0) (2): The marks are labeled by Service_category_abbr, Protocoltype, Service, Srcbytes, Dstbytes and Duration. For pane Avg(-1.0) (3): The marks are labeled by Loggedin, Ihostlogin, Iguestlogin, Rootshell, Sutattempted, Land, Wrongfragment, Urgent, Hot, Numfailedlogins, Numcompromised, Numroot, Numfilecreations, Numshells and Numaccessfiles. For pane Count: Color shows details about Count, Srvcount, Dsthostcount and Dsthostsrvcount. For pane Srvcount: Color shows details about Count, Srvcount, Dsthostcount and Dsthostsrvcount. For pane Dsthostsrvcount: Color shows details about Count, Srvcount, Dsthostcount and Dsthostsrvcount. The data is filtered on Second of Timestamp, which ranges from 03-01-1999 21:46:32 to 03-01-1999 21:48:32. The view is filtered on Attack_category, Attack, Flag, Protocoltype and Timestamp. The Attack_category filter keeps dos, probe, r2l and u2r. The Attack filter keeps 23 of 23 members. The Flag filter keeps 11 of 11 members. The Protocoltype filter keeps icmp, tcp and udp. The Timestamp filter keeps 1,25,973 of 1,25,973 members.



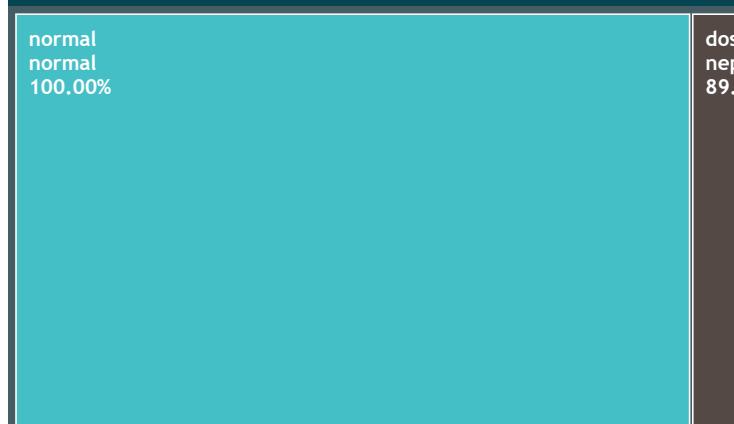
NETWORK CONNECTION METRICS DASHBOARD | Basic & Content Features



Dstbytes	Srcbytes	Duration	Attacks	Fail Logins	Wrong Frags	Urgent Pkts	Compromises	Root Accesses	File Creations	Hot Inds	Shell Prompts	Access File Ops
2.49GB 2.20GB attacked	5.74GB 4.86GB attacked	36.17M s 24.82M s attacked	58,630 1,25,973 Total	154 61 attacked	2,858 2,858 attacked	14 4 attacked	35,178 1,030 attacked	38,068 159 attacked	1,596 96 attacked	25,750 10,217 attacked	52 11 attacked	516 11 attacked



Attack Cat Vs Type Correlation



Attack Cat vs Flag (Click here)





ADVANCED TRAFFIC PATTERNS DASHBOARD | Time & Host Based Features

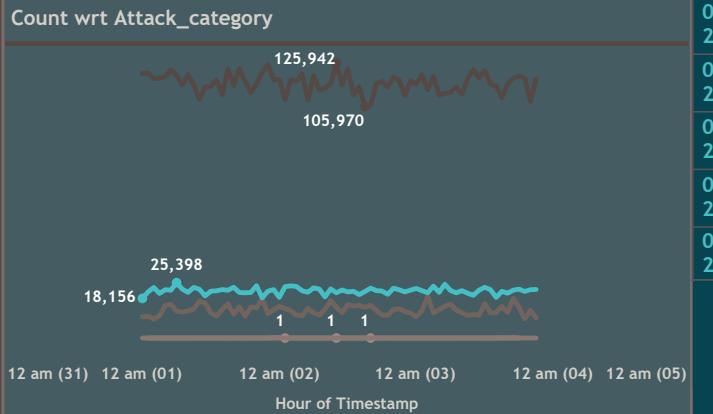
Confusion Matrix of GBDT Model

Test Data Accuracy: 97.90%

Predicted_values					
Actual_v..	dos	normal	probe	r2l	u2r
dos	9,124	55	7		
normal	61	13,267	38	73	30
probe	23	108	2,200		
r2l		129	1	69	
u2r		3	1		6

Hourly Time Series Plot

(Use Measure Names filter to change plot)



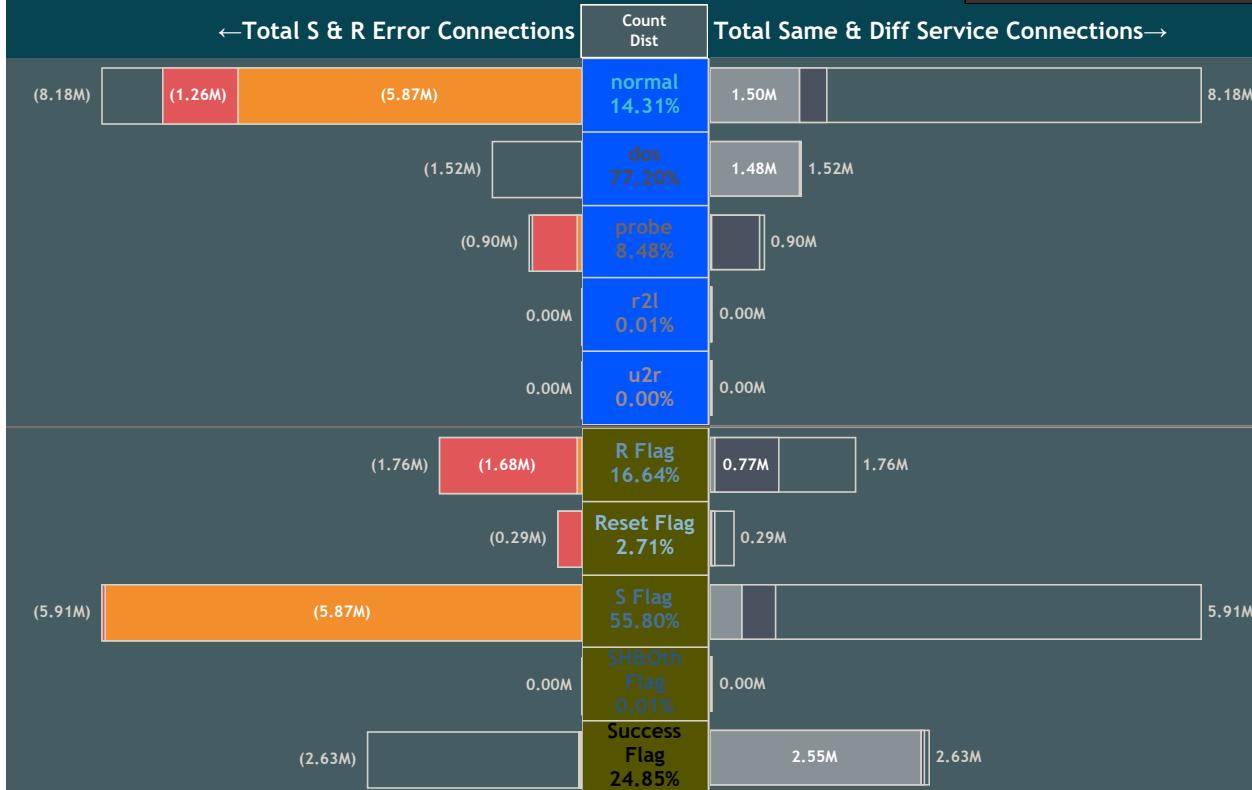
Details of Recently Detected Anomalies

(Use filters to change table)

Attack_start_time	Attack_end_time	Attack_type	Service_category	Protocol	Service	Srcbytes	Dstbytes	Duration	Count (Big bar)	Sum (Small bar)
03-01-1999 21:48:30		dos neptune S0	Web and Internet Services	tcp Z39_50 0.0KB 0.0KB 0.0K s	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0				
03-01-1999 21:48:26		dos neptune REJ	Miscellaneous and Legacy Services	tcp bgp 0.0KB 0.0KB 0.0K s	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0				
03-01-1999 21:48:16		dos neptune S0	Miscellaneous and Legacy Services	tcp private 0.0KB 0.0KB 0.0K s	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0				
03-01-1999 21:48:14		dos neptune REJ	Miscellaneous and Legacy Services	tcp private 0.0KB 0.0KB 0.0K s	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0				
03-01-1999 21:48:12		dos neptune REJ	Miscellaneous and Legacy Services	tcp auth 0.0KB 0.0KB 0.0K s	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0				
		Attack_category [Attack_type Flag]	Service_category [Protocol Service Srcbytes Dstbytes Duration]	Wrongfragment Urgent Hot Numfailedlogins Numcompromised Numroot Numfilecreations Numshells Numaccessfiles Loggedin Ihostlogin Isguestlogin Rootshell Land Sattempted	Count (Big bar) [S]					

Tlme Based Features wrt Attacks & Flags ■ S errors ■ R errors ■ Same Srv/host ■ Diff Srv/host

[Srvcount charts \(click here\)](#)



Host Based Features wrt Attacks & Flags ■ S errors ■ R errors ■ Same Srv/host ■ Diff Srv/host

Dst_Srvcount charts (click here)

