

# Readme

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I did the code with Nadav Keysar - 207229477

To compile the files run - make

IPv4

To run this file run - ./v4

Wireshark of command "sudo ./v4":

8002	1.473186114	225.203.172.196	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8003	1.473209463	215.122.156.139	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8004	1.473232657	142.140.32.103	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8005	1.473256092	207.202.156.14	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8006	1.473279692	54.135.59.60	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8007	1.473302957	130.210.94.203	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8008	1.473326256	15.210.196.9	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8009	1.473350413	41.4.1.10	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8010	1.473373569	208.173.206.167	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8011	1.473429034	39.107.50.181	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8012	1.473454689	247.83.28.198	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8013	1.473479104	29.184.212.83	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8014	1.473503675	64.15.143.194	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8015	1.473529560	225.237.141.240	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8016	1.473553472	192.81.249.233	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8017	1.473576824	85.251.244.37	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8018	1.473600470	168.194.204.208	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8019	1.473623660	45.255.133.36	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8020	1.473648456	82.162.235.111	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8021	1.473671925	90.191.194.154	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8022	1.473695918	207.81.92.176	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8023	1.473718612	62.233.161.254	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8024	1.473746832	58.154.232.144	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8025	1.474605096	149.220.181.62	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8026	1.474726300	158.130.14.204	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8027	1.474749429	129.147.240.211	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8028	1.474774211	53.219.66.144	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0
8029	1.474798629	155.4.42.106	127.0.0.1	TCP	56	1234	443	RST	Seq=1	Win=5840	Len=0

Wireshark of command "sudo ./v4 -t 1.2.3.4 -p 4235 -r":

1655	0.806134998	21.61.6.119	1.2.3.4	UDP	44	1234	4235	Len=0
1656	0.806639214	70.182.132.141	1.2.3.4	UDP	44	1234	4235	Len=0
1657	0.807117193	254.125.50.128	1.2.3.4	UDP	44	1234	4235	Len=0
1658	0.807501643	238.34.189.232	1.2.3.4	UDP	44	1234	4235	Len=0
1659	0.809229414	215.164.197.103	1.2.3.4	UDP	44	1234	4235	Len=0
1660	0.810345051	168.122.172.201	1.2.3.4	UDP	44	1234	4235	Len=0
1661	0.811448979	201.203.92.233	1.2.3.4	UDP	44	1234	4235	Len=0
1662	0.812693371	11.40.139.32	1.2.3.4	UDP	44	1234	4235	Len=0
1663	0.814006852	101.145.151.171	1.2.3.4	UDP	44	1234	4235	Len=0
1664	0.815118944	71.27.57.70	1.2.3.4	UDP	44	1234	4235	Len=0
1665	0.815556047	153.107.198.135	1.2.3.4	UDP	44	1234	4235	Len=0
1666	0.815946595	141.131.111.100	1.2.3.4	UDP	44	1234	4235	Len=0
1667	0.816329073	40.52.204.208	1.2.3.4	UDP	44	1234	4235	Len=0
1668	0.817795746	175.120.154.120	1.2.3.4	UDP	44	1234	4235	Len=0
1669	0.81889859	67.246.97.78	1.2.3.4	UDP	44	1234	4235	Len=0
1670	0.819987839	30.236.110.132	1.2.3.4	UDP	44	1234	4235	Len=0
1671	0.822496859	125.6.47.196	1.2.3.4	UDP	44	1234	4235	Len=0
1672	0.824175262	33.104.10.186	1.2.3.4	UDP	44	1234	4235	Len=0
1673	0.825763025	211.208.65.96	1.2.3.4	UDP	44	1234	4235	Len=0
1674	0.826859972	84.177.197.124	1.2.3.4	UDP	44	1234	4235	Len=0
1675	0.827960502	229.145.76.148	1.2.3.4	UDP	44	1234	4235	Len=0
1676	0.828344482	9.230.12.76	1.2.3.4	UDP	44	1234	4235	Len=0
1677	0.829098850	220.109.155.251	1.2.3.4	UDP	44	1234	4235	Len=0
1678	0.829523556	89.9.127.214	1.2.3.4	UDP	44	1234	4235	Len=0
1679	0.830733047	15.174.155.49	1.2.3.4	UDP	44	1234	4235	Len=0
1680	0.832149979	23.165.235.234	1.2.3.4	UDP	44	1234	4235	Len=0
1681	0.832843868	118.45.75.202	1.2.3.4	UDP	44	1234	4235	Len=0
1682	0.833326284	222.16.70.195	1.2.3.4	UDP	44	1234	4235	Len=0

## IPv6

To run this file run - ./v6

Wireshark of command "sudo ./v6":

4612	0.828235071	8553:2118:9352:4979...	::1	UDP	64	1234	→ 443	Len=0
4613	0.828241325	5a40:3662:3916:ed6a...	::1	UDP	64	1234	→ 443	Len=0
4614	0.828247420	5be6:7088:d6d7:e1aa...	::1	UDP	64	1234	→ 443	Len=0
4615	0.828253536	4fa4:9ebe:7024:e9dc...	::1	UDP	64	1234	→ 443	Len=0
4616	0.828259673	528f:4115:6dca:63ad...	::1	UDP	64	1234	→ 443	Len=0
4617	0.828265242	528f:4115:6dca:63ad...	::1	UDP	64	1234	→ 443	Len=0
4618	0.828271438	ec85:686d:9eaa:3fc6...	::1	UDP	64	1234	→ 443	Len=0
4619	0.828277487	7cc9:7e22:1570:1bc7...	::1	UDP	64	1234	→ 443	Len=0
4620	0.828283103	7cc9:7e22:1570:1bc7...	::1	UDP	64	1234	→ 443	Len=0
4621	0.828289248	bed1:21f7:8f65:1fea...	::1	UDP	64	1234	→ 443	Len=0
4622	0.828363933	bed1:21f7:8f65:1fea...	::1	UDP	64	1234	→ 443	Len=0
4623	0.828373606	f65f:265b:f230:b5f9...	::1	UDP	64	1234	→ 443	Len=0
4624	0.828380513	e02b:bdf8:70b2:60f7...	::1	UDP	64	1234	→ 443	Len=0
4625	0.828386655	ee5e:fa73:1a7c:8c53...	::1	UDP	64	1234	→ 443	Len=0
4626	0.828392703	f2fa:610e:6a31:4c9a...	::1	UDP	64	1234	→ 443	Len=0
4627	0.828398781	c177:1534:75a5:2b05...	::1	UDP	64	1234	→ 443	Len=0
4628	0.828404873	fbbf:f98c:88a1:3781...	::1	UDP	64	1234	→ 443	Len=0
4629	0.828410933	6e23:4c90:d0a6:d994...	::1	UDP	64	1234	→ 443	Len=0
4630	0.828416984	c882:b89d:838b:11cf...	::1	UDP	64	1234	→ 443	Len=0
4631	0.828422989	bbc3:c720:c037:c341...	::1	UDP	64	1234	→ 443	Len=0
4632	0.828429020	629e:338b:382a:3892...	::1	UDP	64	1234	→ 443	Len=0
4633	0.828435203	b6ce:cd8b:9ef2:fac4...	::1	UDP	64	1234	→ 443	Len=0
4634	0.828441285	85fc:b541:bf51:59b7...	::1	UDP	64	1234	→ 443	Len=0
4635	0.828447349	27ec:2f21:1ad4:2cd5...	::1	UDP	64	1234	→ 443	Len=0
4636	0.828453433	7949:65a8:a363:2085...	::1	UDP	64	1234	→ 443	Len=0
4637	0.828459399	6dd4:d4d5:d17a:22d4...	::1	UDP	64	1234	→ 443	Len=0
4638	0.828465285	6871:2fa7:21e8:4442...	::1	UDP	64	1234	→ 443	Len=0
4639	0.828472098	9ff3:f6a9:e534:2827...	::1	UDP	64	1234	→ 443	Len=0

Wireshark of command "sudo ./v6 -t 3513:ba5d::e76c -p 5621":

3774	2.291064770	a88d:ff1b:ffe7:c73e:ea64:a9...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3775	2.291268478	b209:1f51:176c:dd60:f6b2:8a...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3776	2.291381818	c52e:b659:8f76:bf7a:3225:b5...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3777	2.291489063	5460:b7d9:b0bf:ba86:cee9:96...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3778	2.291601290	15c4:1ae6:beb6:be2a:b458:7c...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3779	2.291801103	9c20:6dc0:c3c3:12d3:f7c6:1a...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3780	2.291912251	d0c6:498b:fc70:f2ec:ff73:8b...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3781	2.292111635	4398:fed2:8e5b:9281:157b:99...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3782	2.292224664	243f:48b0:ab69:5898:c57f:81...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3783	2.292411936	ef7e:82be:f473:6746:9d2b:ae...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3784	2.292525607	7813:20ae:f0dd:7787:ac6c:be...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3785	2.292634655	bdc3:d9b6:d286:533e:7310:8c...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3786	2.292743095	552f:a9e7:6fe7:1aaf:aba5:2e...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3787	2.292851043	b1a1:70c3:826b:cecc:9f4b:a6...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3788	2.293051181	4756:2d9d:8ee6:f3c2:ec8d:da...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3789	2.293162294	b3f8:e64d:fd8f:a708:f2cc:fc...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3790	2.293352485	a5f6:ae3f:e2ab:519c:5d22:5e...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3791	2.293478811	cfbe:ef2c:5d90:6f0a:15d5:9a...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3792	2.293589397	47ed:9550:50ef:b47a:ef91:b4...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3793	2.293698267	9b04:5c5c:ca93:cdd1:586a:58...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3794	2.293931239	372c:387a:cffd:944e:9775:bc...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3795	2.294124351	2bec:80a2:d63e:41c1:9af2:5c...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3796	2.294234691	71f9:6fdd:175a:618b:2494:76...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3797	2.294344135	d282:4fab:cd68:aaed:d896:a3...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3798	2.294463382	dbb1:f94b:a411:f326:360b:c7...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3799	2.294740475	c7c6:b09b:a3b8:62b9:8d44:42...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0
3800	2.294938323	3284:dcf2:e0c8:5718:d319:65...	3513:ba5d::e76c	UDP	64	1234	→ 5621	Len=0