

## Задание 1

1. IP-адрес моего хоста: 192.168.1.63. IP-адрес хоста назначения (rediff.com): 2.16.186.185

icmp						
No.	Time	Source	Destination	Protocol	Length	Info
452	33.396410	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=1/256, ttl=64 (reply in 459)
459	33.429144	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=1/256, ttl=53 (request in 452)
483	34.414553	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=2/512, ttl=64 (reply in 488)
488	34.447267	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=2/512, ttl=53 (request in 483)
499	35.423838	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=3/768, ttl=64 (reply in 506)
506	35.456288	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=3/768, ttl=53 (request in 499)
517	36.431515	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=4/1024, ttl=64 (reply in 522)
522	36.464214	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=4/1024, ttl=53 (request in 517)
528	37.435876	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=5/1280, ttl=64 (reply in 533)
533	37.468473	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=5/1280, ttl=53 (request in 528)
545	38.439640	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=6/1536, ttl=64 (reply in 549)
549	38.472334	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=6/1536, ttl=53 (request in 545)
556	39.455120	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=7/1792, ttl=64 (reply in 557)
557	39.488777	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=7/1792, ttl=53 (request in 556)
586	40.470875	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=8/2048, ttl=64 (reply in 587)
587	40.504724	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=8/2048, ttl=53 (request in 586)
598	41.486675	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=9/2304, ttl=64 (reply in 599)
599	41.520341	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=9/2304, ttl=53 (request in 598)
624	42.490897	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=10/2560, ttl=64 (reply in 625)
625	42.524702	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=10/2560, ttl=53 (request in 624)

2. ICMP – протокол сетевого уровня, а номера портов нужны для транспортного
3. ICMP-тип: 8 (Echo (ping) request). Кодовый номер: 0. Другие поля: Checksum, Identifier (BE + LE), Sequence number (BE + LE). Размер поля контрольной суммы, идентификатора и порядкового номера: по 2 байта (16 бит) на каждое поле:

263	14.041735	192.168.1.63	2.16.186.185	ICMP	74	Echo (ping) request id=0x0001, seq=62/15872, ttl=64 (reply in 264)
264	14.074294	2.16.186.185	192.168.1.63	ICMP	74	Echo (ping) reply id=0x0001, seq=62/15872, ttl=53 (request in 263)

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Internet Control Message Protocol
  Type: 8 (Echo (ping) request)
  Code: 0
  Checksum: 0x4d1d [correct]
  [Checksum Status: Good]
  Identifier (BE): 1 (0x0001)
  Identifier (LE): 256 (0x0100)
  Sequence Number (BE): 62 (0x003e)
  Sequence Number (LE): 15872 (0x3e00)
  [Response frame: 264]
  > Data (32 bytes)
  
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4. ICMP-тип: 0 (Echo (ping) reply). Кодовый номер: 0. Другие поля: Checksum, Identifier (BE + LE), Sequence number (BE + LE). Размер поля контрольной суммы, идентификатора и порядкового номера: по 2 байта на каждое поле:

264	14.074294	2.16.186.185	192.168.1.63	ICMP	74 Echo (ping) reply	id=0x0001, seq=62/15872, ttl=53 (request in 263)
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