**fakeroot make -j$(nproc)**

**sudo make modules\_install**

**sudo make install**

**sudo update-grub**

**sudo reboot**

A blue square with black text

Description automatically generated



**Experiment 1**

MPTCP =0

Bandwidth=100mbps

h1-eth0 mtu 9000

h1-eth1 mtu 576

r1-eth0 mtu 9000

r1-eth1 mtu 576

A screenshot of a computer screen

Description automatically generated

Source=10.0.0.2

A screenshot of a computer

Description automatically generated

MPTCP=1

Bandwidth=100mbps

h1-eth0 mtu 9000

h1-eth1 mtu 576

r1-eth0 mtu 9000

r1-eth1 mtu 576

A screenshot of a computer program

Description automatically generated

Source= 10.0.0.2

A screenshot of a computer

Description automatically generated

Source=10.0.1.2

A screenshot of a computer

Description automatically generated

MPTCP=1

Bandwidth=100mbps

h1-eth0 mtu 9000

h1-eth1 mtu 9000

r1-eth0 mtu 9000

r1-eth1 mtu 9000

A diagram of a network

Description automatically generated

A screenshot of a computer

Description automatically generated

Source=10.0.0.2

A screenshot of a computer

Description automatically generated

Source= 10.0.1.2

A screenshot of a computer

Description automatically generated

MPTCP=1

Bandwidth=100mbps

h1-eth0 mtu 576

h1-eth1 mtu 576

r1-eth0 mtu 576

r1-eth1 mtu 576

A diagram of a network

Description automatically generated

A screenshot of a computer program

Description automatically generated

Source=10.0.0.2

A screenshot of a computer

Description automatically generated

Source=10.0.1.2

A screenshot of a computer

Description automatically generated

MPTCP=0

Bandwidth=100mbps

h1-eth0 mtu 9000

h1-eth1 mtu 9000

r1-eth0 mtu 9000

r1-eth1 mtu 9000

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Description automatically generated

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer

Description automatically generated

MPTCP =0 , MPTCP=1 with 9000 MTU each

A screenshot of a graph

Description automatically generated

MPTCP enabled both link 9000 MTU vs 576 MTU

A screenshot of a graph

Description automatically generated

In here I used changing host interface’s MTU.

**Experiment 2**

Bandwidth is not set.

MPTCP=0

h1-eth0 mtu 9000

h1-eth1 mtu 576

r1-eth0 mtu 9000

r1-eth1 mtu 576

in here host 1 knows his interfaces’s MTU. Path MTU discovery??????

A screenshot of a computer

Description automatically generated

Bandwidth is not set.

MPTCP=1

h1-eth0 mtu 9000

h1-eth1 mtu 576

r1-eth0 mtu 9000

r1-eth1 mtu 576

A screenshot of a computer

Description automatically generated

A screenshot of a graph

Description automatically generated

Bandwidth must be set. Otherwise it does not give proper results. Even when checking different bandwidth rather than path MTU, MPTCP must work better than TCP. When removing bandwidth, it didn’t give such results. Conclusion is bandwidth must setup for even simple test.

# Day 3

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**Experiment 3**

h1 interface 1 mtu 9000")



h1 interface 2 mtu 9000")

r1 interface 1 mtu 9000")

r1 interface 2 mtu 576")

A diagram of a network

Description automatically generated

![A graph showing a number of blue and orange lines

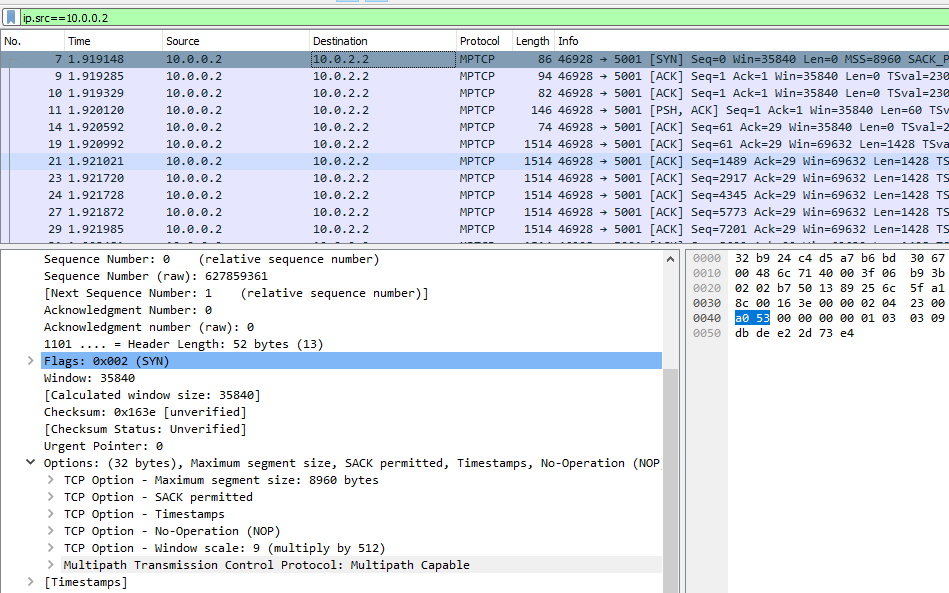
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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNoYW1hbGthIE1hbm9yYXRobmUAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzE1AACSkgACAAAAAzE1AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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EVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9b/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36KAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+uStfij4PvdQisrXVjJczSiKNBaTDc5OAMlMdaAL3/CB+EP+hV0T/wXQ/8AxNH/AAgfhD/oVdE/8F0P/wATV7Qtah8QaTHqFtb3VvG7MojuovLcYJHT8K0aAMD/AIQPwh/0Kuif+C6H/wCJo/4QPwh/0Kuif+C6H/4mt+igDA/4QPwh/wBCron/AILof/iaP+ED8If9Cron/guh/wDia36zJPEmkReIINEe/iOpThmS2XLNgDJzjheAeuM9qAKf/CB+EP8AoVdE/wDBdD/8TR/wgfhD/oVdE/8ABdD/APE1v0UAYH/CB+EP+hV0T/wXQ/8AxNH/AAgfhD/oVdE/8F0P/wATW/RQBgf8IH4Q/wChV0T/AMF0P/xNH/CB+EP+hV0T/wAF0P8A8TW/RQBgf8IH4Q/6FXRP/BdD/wDE0f8ACB+EP+hV0T/wXQ//ABNb9FAGB/wgfhD/AKFXRP8AwXQ//E0f8IH4Q/6FXRP/AAXQ/wDxNb9FAGB/wgfhD/oVdE/8F0P/AMTR/wAIH4Q/6FXRP/BdD/8AE1v0UAYH/CB+EP8AoVdE/wDBdD/8TR/wgfhD/oVdE/8ABdD/APE1v0UAYH/CB+EP+hV0T/wXQ/8AxNH/AAgfhD/oVdE/8F0P/wATW/RQBgf8IH4Q/wChV0T/AMF0P/xNH/CB+EP+hV0T/wAF0P8A8TW/RQBgf8IH4Q/6FXRP/BdD/wDE0f8ACB+EP+hV0T/wXQ//ABNb9FAGB/wgfhD/AKFXRP8AwXQ//E0f8IH4Q/6FXRP/AAXQ/wDxNb9FAGB/wgfhD/oVdE/8F0P/AMTR/wAIH4Q/6FXRP/BdD/8AE1v0UAYH/CB+EP8AoVdE/wDBdD/8TR/wgfhD/oVdE/8ABdD/APE1v0UAYH/CB+EP+hV0T/wXQ/8AxNH/AAgfhD/oVdE/8F0P/wATW/RQBgf8IH4Q/wChV0T/AMF0P/xNH/CB+EP+hV0T/wAF0P8A8TW/RQBgf8IH4Q/6FXRP/BdD/wDE0f8ACB+EP+hV0T/wXQ//ABNb9FAGB/wgfhD/AKFXRP8AwXQ//E0f8IH4Q/6FXRP/AAXQ/wDxNb9FAGB/wgfhD/oVdE/8F0P/AMTR/wAIH4Q/6FXRP/BdD/8AE1v0UAYH/CB+EP8AoVdE/wDBdD/8TR/wgfhD/oVdE/8ABdD/APE1v0UAYH/CB+EP+hV0T/wXQ/8AxNH/AAgfhD/oVdE/8F0P/wATW/RQBgf8IH4Q/wChV0T/AMF0P/xNH/CB+EP+hV0T/wAF0P8A8TW/RQBgf8IH4Q/6FXRP/BdD/wDE0f8ACB+EP+hV0T/wXQ//ABNb9FAGB/wgfhD/AKFXRP8AwXQ//E0f8IH4Q/6FXRP/AAXQ/wDxNb9FAGB/wgfhD/oVdE/8F0P/AMTR/wAIH4Q/6FXRP/BdD/8AE1v0UAYH/CB+EP8AoVdE/wDBdD/8TR/wgfhD/oVdE/8ABdD/APE1v0UAYH/CB+EP+hV0T/wXQ/8AxNH/AAgfhD/oVdE/8F0P/wATW/RQBgf8IH4Q/wChV0T/AMF0P/xNH/CB+EP+hV0T/wAF0P8A8TW/RQBgf8IH4Q/6FXRP/BdD/wDE0f8ACB+EP+hV0T/wXQ//ABNb9FAGB/wgfhD/AKFXRP8AwXQ//E0f8IH4Q/6FXRP/AAXQ/wDxNb9FAGB/wgfhD/oVdE/8F0P/AMTR/wAIH4Q/6FXRP/BdD/8AE1v0UAYH/CB+EP8AoVdE/wDBdD/8TR/wgfhD/oVdE/8ABdD/APE1v0UAYH/CB+EP+hV0T/wXQ/8AxNH/AAgfhD/oVdE/8F0P/wATW/RQBgf8IH4Q/wChV0T/AMF0P/xNH/CB+EP+hV0T/wAF0P8A8TW/RQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAB6V5P8JNL1yXQor238QmDTFvJt+m/Yo234bn94fmGa9YooA8A0nyz4O8IDXUun8M/aLz7csCuVL7j5e8JzjP9amsW2fDPTr+FJnsdO8VC4fCsxigXvjrgZH517Dr/h4a+kC/2tqmmmEsQ2nXPkl844bg56VNoGg2PhvR4tN0xGWGMliZG3M7E5LMe5NAHjt9qMd/4L+Iup6bM7W1zfwNDMoZN6mRRxnBq7470KDw9p2gWmn262vh2SSSa+Evnyw+aUUKZNjb8ccAHrmvZ6KAOP8AhfEYvBaBNTXUrczyG3kRJFVI8/cAk+bAOcZ7Vlatpdjp/wAavDE1jaRQS3aXks7ouDK3l9Se9ei0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAO8m5/59pP++l/xo8m5/wCfaT/vpf8AGtWigDK8m5/59pP++l/xo8m5/wCfaT/vpf8AGtWigDK8m5/59p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![A screenshot of a graph

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l/+ET1n/offEH/AH4sP/kaqup+Ar/V9Ku9N1Dxxr81peQvBPGYrIb0YEMMi3BGQT0Oa7KigBFG1QvXAxk0tFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXiPhDwvqt9oOlRafAr6Jrrf8TlzIB5X2e5kb7pOW81NsRxnAUdK9uooA8U0FNSk034arotxa293nUtsl3A00YGGzlVdCeP9qup1rw23hr4N+No5737dd31lqN9dTiLylaWSFs7UydqgAADJ6da9CooA848RSLpWveBfEOpI50ewt54rmcIXW1kliQRysBnC/K67ug384zR8QPEuk+I/hprX/CO6jBfGFrXM8QMkQLXCYG4cN05AORxnGRXo9FAHMaJ4Y1C38VXPiPxBqdvfahNZpZRpZ2ht4Yolcv0Z3ZmLHqT+Fcj4t/sL/hPtY/4TjOP7Nh/sHfuzu/eeb5GP+W2/Z0+bG3HFeq0UAeLeFlR9P8HLNdyWUZ8BXQa5izvhGbXLrjnI6j6VHoWq6boeheIrfRtH0XXBbaOXl1DRA6pdc7DHOBuIkwS5wzNgN07+20UAeEaDc28OseJLPR7rR5tOuPC89w66HavDamVW25+Z2VnAcglcdQDzV7wN/YX9qeBv+ERz/a32Q/29t3eZ5P2Y/wDHxnv53l7c/wDAflr2migDwGNZH8HeCF1S40228P8A2S786TVrV57P7R5o8sSqsiAHb5m0sduc8ZwRq/Z9NtdH8NR+IdYtNX8If2hdtNMkTx2UbFcwRtvZsxK3mBdzFc7B2Fe00UAeefCD7D9j8Vf2R5n2H/hIZvs+/d/q/Ig243c7cfd/2cV6HRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB4j4Q8L6rfaDpUWnwK+ia63/ABOXMgHlfZ7mRvuk5bzU2xHGcBR0p+gpqUmm/DVdFuLW3u86ltku4GmjAw2cqroTx/tV7XRQB57rXhtvDXwb8bRz3v267vrLUb66nEXlK0skLZ2pk7VAAAGT061F4ikXSte8C+IdSRzo9hbzxXM4QutrJLEgjlYDOF+V13dBv5xmvR6KAPOPiB4l0nxH8NNa/wCEd1GC+MLWuZ4gZIgWuEwNw4bpyAcjjOMiug0TwxqFv4qufEfiDU7e+1CazSyjSztDbwxRK5fozuzMWPUn8K6eigDx3x7Ck/xEvE8T32iWWm/YYRpr65Zyywk5fzfKZZY1SXO3PV8bcYFWdM8N2OteNtFsvEM6+IYYfCi5mnjZVuj5wAkZCeTjn5s8nPWvWaKAPDf7StpfAvhHTtcj0lreRLxV1HxBG88EXky7Ej2hl3SMvQlhwhxk1Ut7u0u/BfgT/hJ5ZJNPg8Q31vKxSRMQotyqqysSyoFABDE4QEMSAa99ooA8OvN58K60PCTrH4QOv22xxFJLbrbeWv2goqMrNB5uMhSFxv7ZpJLWzg8DeIn0jXdH1CxkutMxaaLavDa2zi7TLLmRxuYYyFI+4CRk8+5UUAeFePv7C+y/EL/hKs/8JF5Un9k7t3m/Zfsy7PJx/Bu8zzMcfe3cV7VpP/IFsv8Ar3j/APQRVuigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAJKKj3n1o3n1oAkoqPefWjefWgCSio959aN59aAP/9k=)

Packets capture from router interface 3 (r1<->Server). But when investigate pcap files

When MPTCP enabled  
source = 10.0.0.2 SYN=8960



Data size= 1428

A screenshot of a computer

Description automatically generated

Source= 10.0.1.2 MP JOIN

SYN = 8960

No packet capture records from second IP

A screenshot of a computer

Description automatically generated

TCP=1

MPTCP=0

Source= 10.0.0.2

SYN=8960

A screenshot of a computer

Description automatically generated

Source=10.0.1.2 . no records

A screenshot of a computer

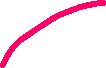
Description automatically generated

# Day 4

MPTCP =1

A blue square with black text

Description automatically generated



R1-eth1 = 576 MTU

A diagram of a network

Description automatically generated

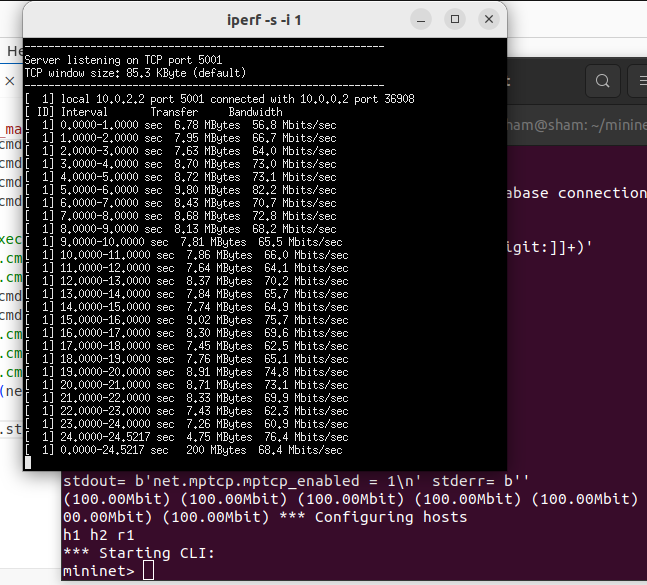
A computer screen shot of a program

Description automatically generated

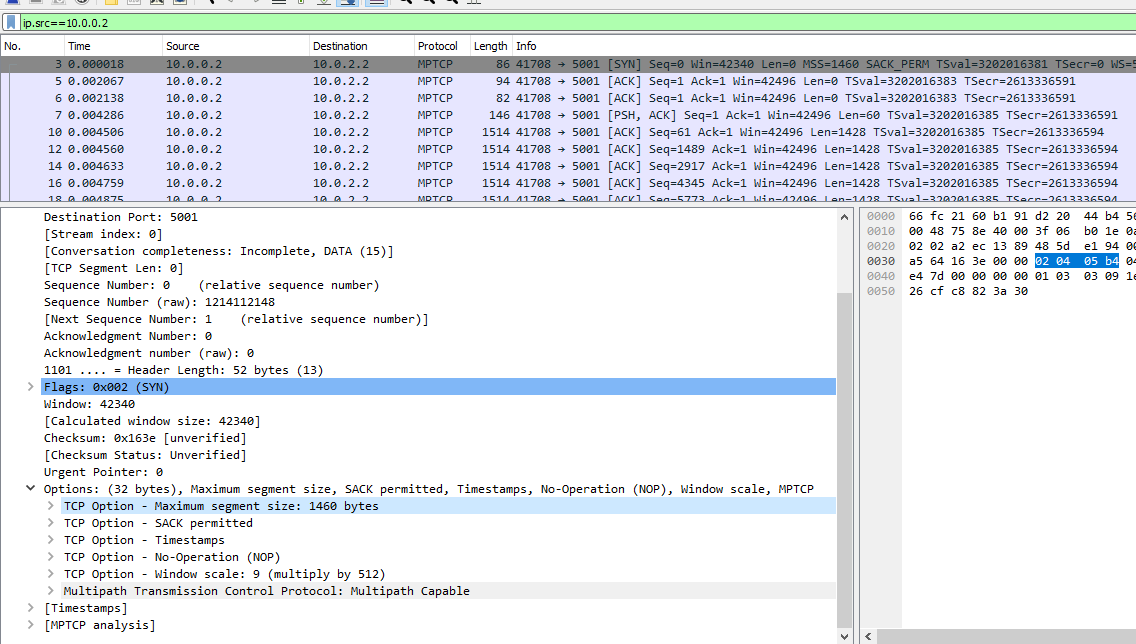
Rest of are default 1500

A computer screen shot of a program

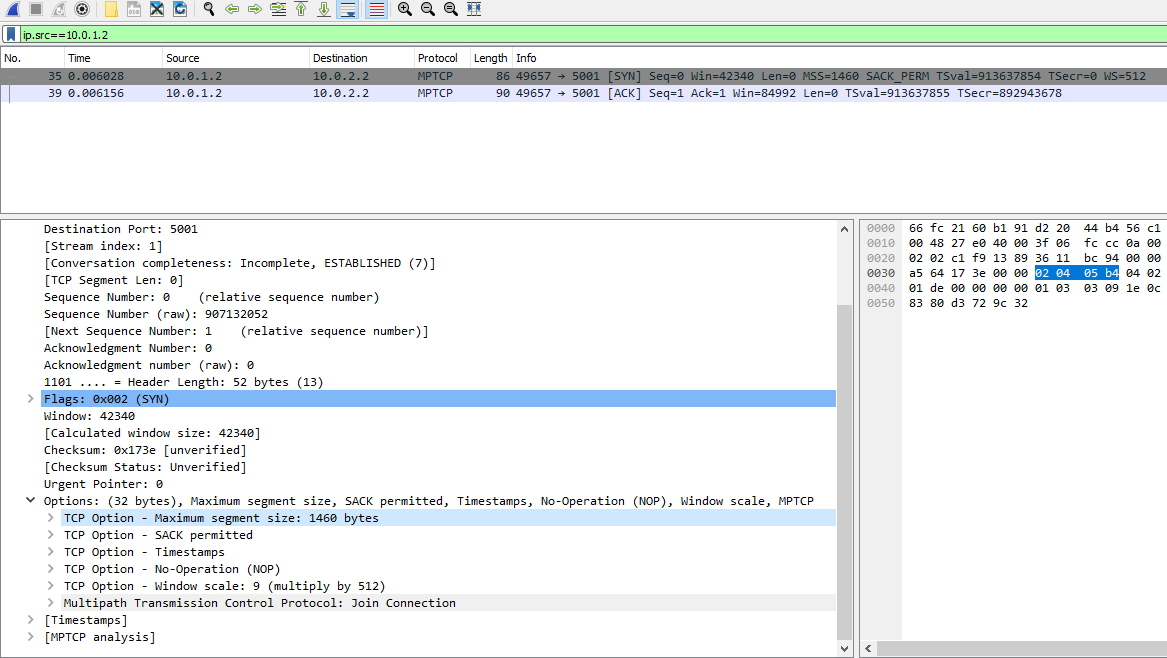
Description automatically generated



Source = 10.0.0.2

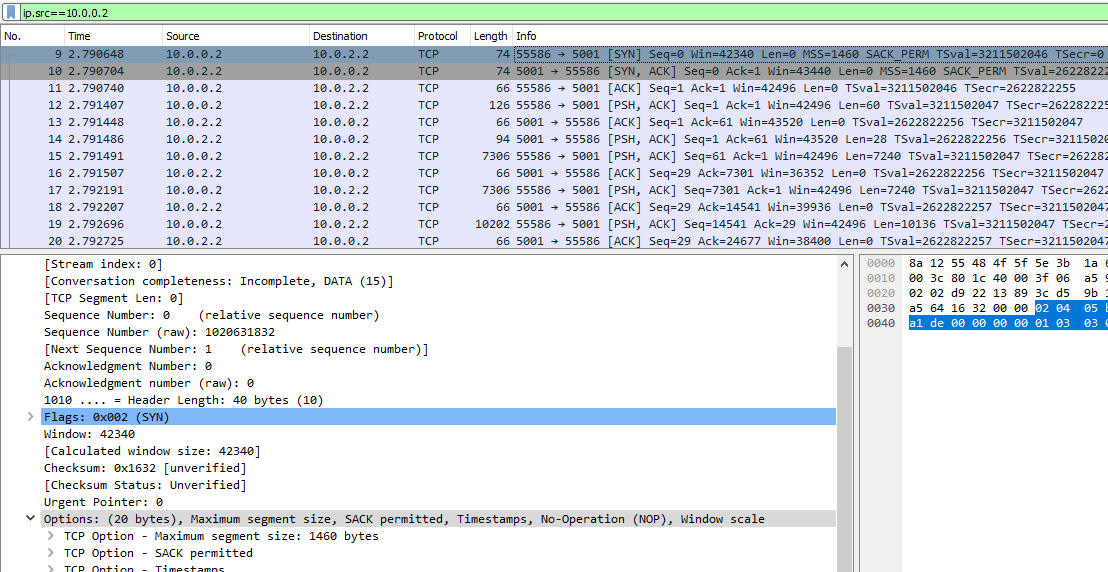


Source= 10.0.1.2



TCP

Source= 10.0.0.2

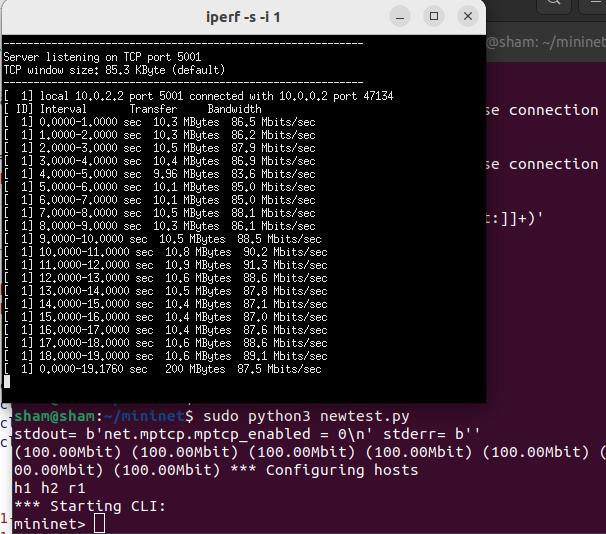


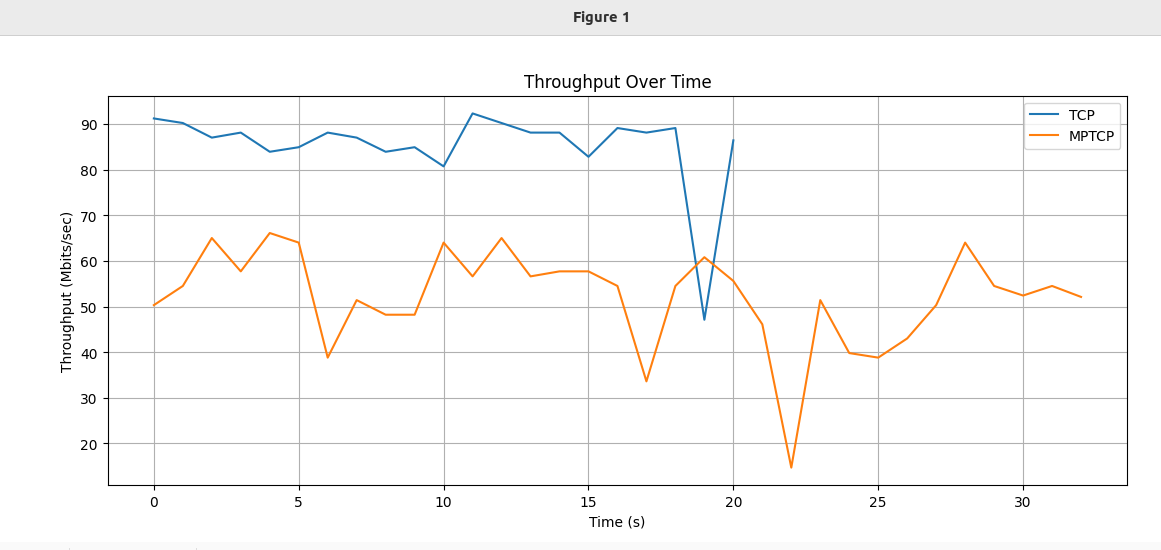
source= 10.0.1.2

A screenshot of a computer

Description automatically generated

TCP , there is no usage of 2nd link





A screen shot of a graph

Description automatically generated

Up to now in MPTCP, 2 link is not utilized. MP join opt not work. Path MTU of 1st link is 1500. Path MTU of 2nd link is 576 due to MTU of router eth1 interface.

# Day 5

## Experiment 1

MPTCP=1 MTU 9000 all

A diagram of a computer network

Description automatically generated

MPTCP =1 MTU 9000 vs 1500

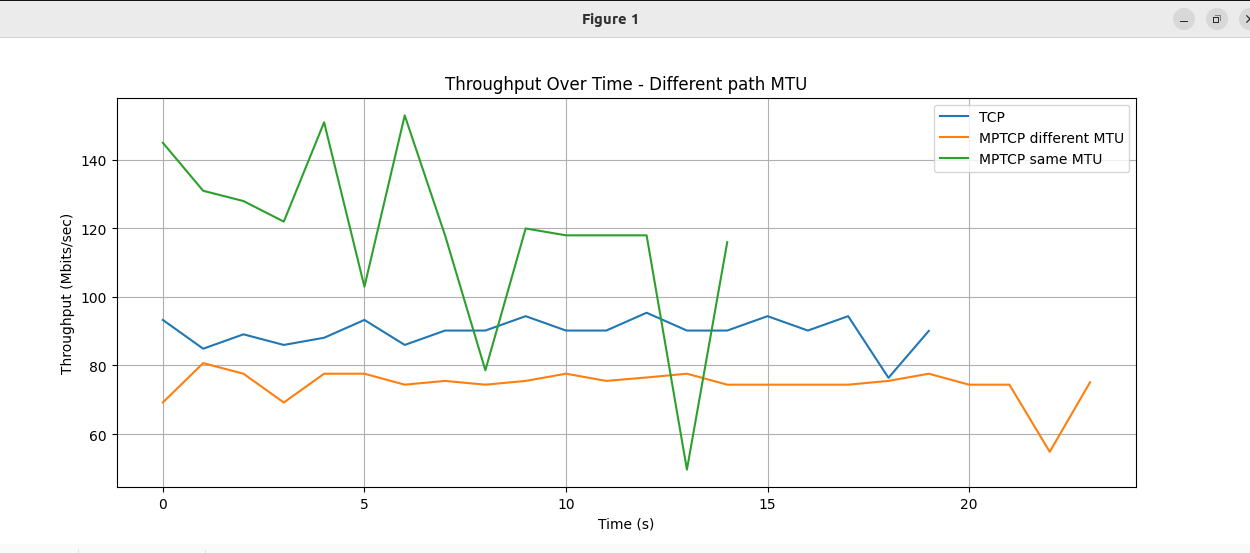
A diagram of a block diagram

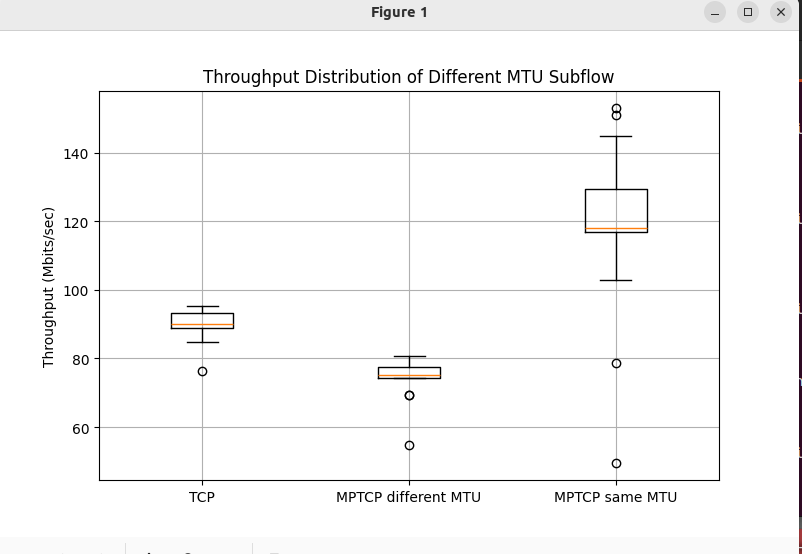
Description automatically generated

TCP =1 MTU 9000 vs 1500

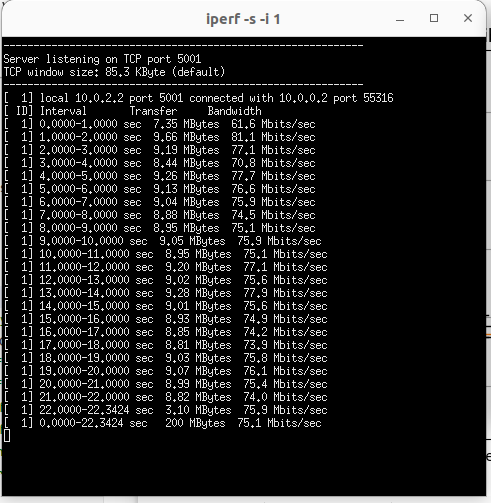
A blue cube with white arrows

Description automatically generated

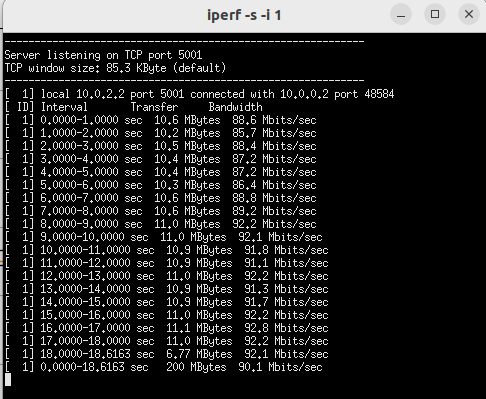




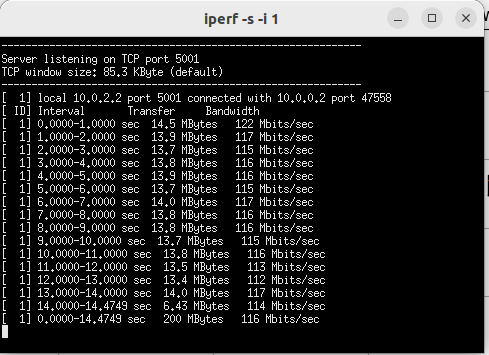
MPTCP =1 MTU 9000 vs 1500



TCP =1 MTU 9000 vs 1500



MPTCP=1 MTU 9000 all



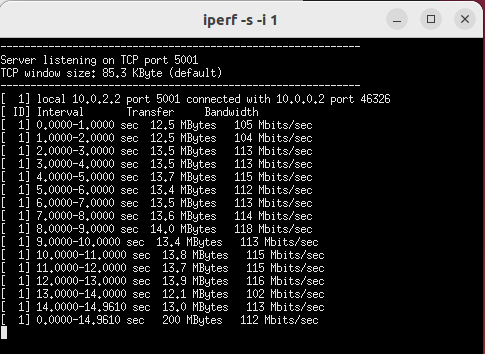
## Experiment 2

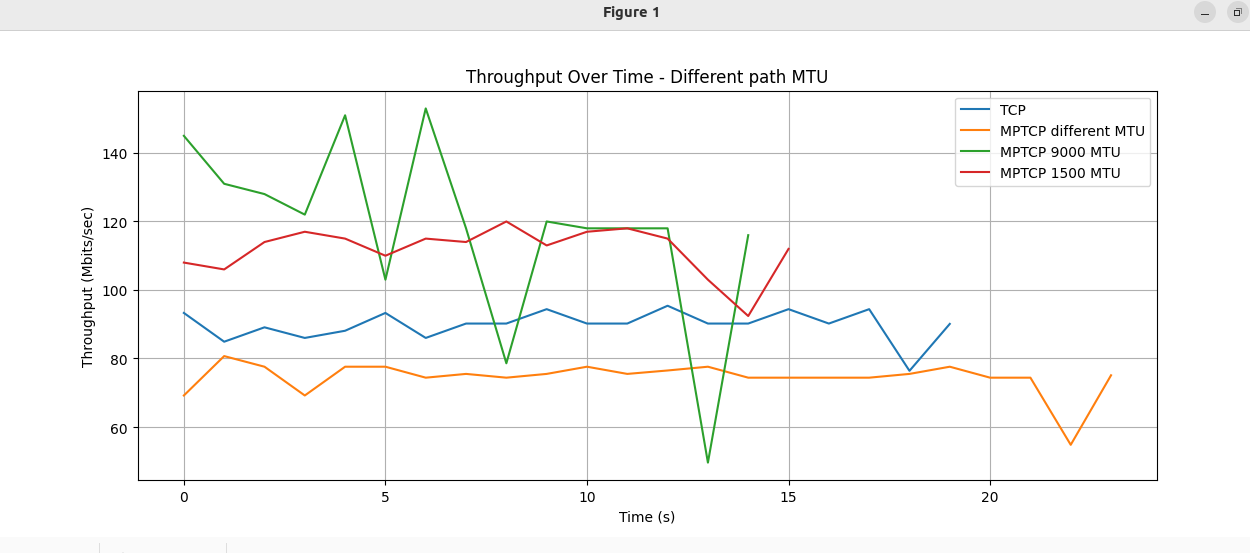
TCP (MPTCP=0) diff MTU 9000 vs 1500

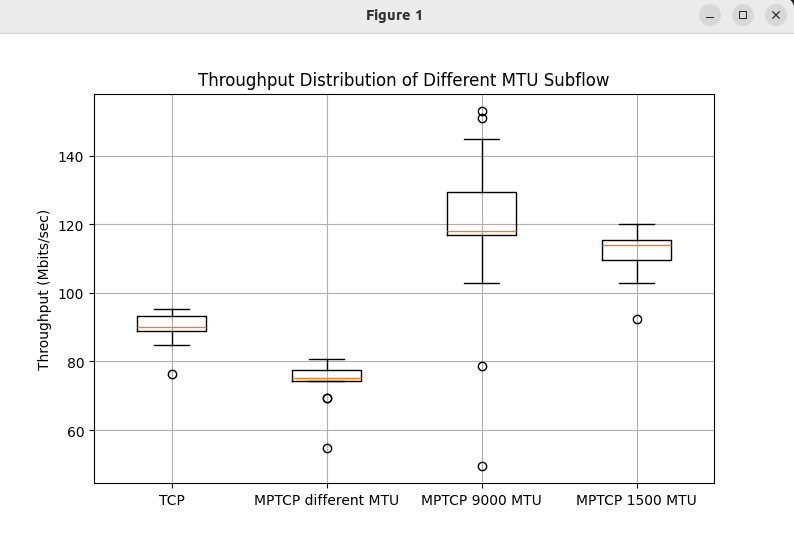
MPTCP=1 diff MTU 9000 vs 1500

MPTCP=1 9000 MTU all

MPTCP=1 1500 MTU all







# Day 6

Link 1 1500MTU

Link2 9000MTU

TCP

A screenshot of a computer

Description automatically generated

MPTCP

A screenshot of a computer

Description automatically generated

Link 1 pcap- uses exact 1500 MTU as usual

A screenshot of a computer

Description automatically generated

Link 2 pcap- it uses only 1500MTU instead of 9000MTU

A screenshot of a computer

Description automatically generated

Day 7

Create TCP link to check whether path MTU is configured correctly

A screenshot of a computer

Description automatically generated  
  
[pcap file](https://drive.google.com/file/d/1XND8iA3f1ZVTHDUK4m0ahKEktxy7paVb/view?usp=drive_link)

Create bottleneck in MPTCP topology

[bottelneck pacap](https://drive.google.com/file/d/1EQpNJH14IIqUnLN3NJCahFm-UsHr2Rjp/view?usp=drive_link)

End host bottleneck

[End host low MTU pcap](https://drive.google.com/file/d/1ElFBB-uAL4fIngIPutKsHiP1KH_zdyEf/view?usp=drive_link)

Self bottleneck low mtu pcap

[self low mtu pcap](https://drive.google.com/file/d/1M9SfnAPE3SVrfh3d4H4gAJnxLKqTEfEz/view?usp=drive_link)

# Interim

## A piece of paper with writing on it Description automatically generated

A white paper with writing on it

Description automatically generated

**Objectives**

Make tcp connection to catch mtu detection

Create mininet script- establish single tcp link

* Change PMTUs

Which point mtu detection does

Kernal print MTUs

Which files involving to do this

-----------------------------------------------------------------------------------------------------------------------------

## Day 1

Mininet single tcp script , interfaces up as ipv6 .

Ipv6 – > addrconf.c –> func addrconf\_notify

Kernel log is

View log file [log](https://drive.google.com/file/d/1j1CNXIVNd4HG0prEY_i3h7GfCFRDCchn/view?usp=sharing)

View kernel msg - [kernel](https://drive.google.com/file/d/1NCXRR8qpDFt3b44eDjEYLmsQVsgCx7Za/view?usp=sharing)

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## Day 2

Finding packets size when making IP header for data segment

net/ipv4/ip\_output.c

ip\_build\_and\_send\_pkt function building IP header and sending individual IP packets,

In net/ip.h

PMTU defined as 65535U

A black screen with white text

Description automatically generated

Print skb len in kernel to check what is there. net/ipv4/ip\_output.c -- ip\_build\_and\_send\_pkt()

A screen shot of a computer code

Description automatically generated

Result

A screen shot of a computer code

Description automatically generated

It print as 52

But data is not transferred

A screenshot of a computer

Description automatically generated

When mtu size change to 1500 for all

A screenshot of a computer code

Description automatically generated

It transferred data.

A screenshot of a computer

Description automatically generated

Change MTU to 9000 for all – data transferred

A screenshot of a computer screen

Description automatically generated

Eventhough interface MTU size 1500 or 9000 skb->len give 52 ?

When create bottleneck data is not transferred

internet note:- tcp\_mtu\_probing = 2 (Aggressive Probing)

* In addition to responding to "Fragmentation Needed" messages, the kernel periodically sends larger packets to test whether a larger MTU is now supported on the path.
* This "aggressive probing" approach allows the kernel to adjust the MTU up or down, depending on network path changes, which is especially useful for dynamic network environments.
* If a larger MTU becomes possible due to network changes, it improves TCP performance by reducing the number of packets needed to transfer data.

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## Day 3

Finding where does PATH MTU value decision takes place for stablished tcp link

Enabled PMTUD = sysctl net.ipv4.ip\_no\_pmtu\_disc= 0

Enabled tcp mtu probe = sysctl net.ipv4.tcp\_mtu\_probing= 1

Need to find where does ICMP handles PMTU values

Ipv4/icmp.c

internet note:- kernel handles ICMP messages in the icmp.c file, where it inspects the type of ICMP error. Specifically, the PMTU-related ICMP error (Type 3, Code 4) indicates that a packet is too large for the next hop’s MTU.

Ipv4/icmp.h/icmp\_unreach()

Modified this

A computer code with many colorful text

Description automatically generated with medium confidence

A black background with white text

Description automatically generated

passing the ICMP message along with the MTU info (info) to the transport layer, which adjusts the MTU for future packets.

## Day 4

Mininet script [python file](https://drive.google.com/file/d/15fQPASYRG6HjvexjQ153Ts7L2paTdn6l/view?usp=sharing)

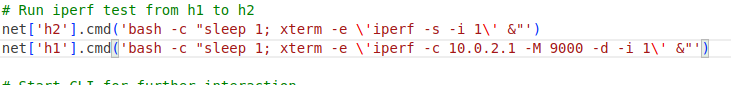
Finally got some results on kernel print

A computer screen shot of a computer code

Description automatically generatedResults

Changes:-

Iperf run on 9000 mtu and verbose mode (-d)



MTU configuaration in mininet

A close-up of a computer screen

Description automatically generated

Backend configurations

A screenshot of a computer program

Description automatically generated

Iperf output

A screenshot of a computer

Description automatically generated

1st run



2nd run



## Day 5

Try to make 1500 MSS in iperf

A close-up of a computer screen

Description automatically generated

Iperf output

Data is not sending

A screenshot of a computer

Description automatically generated

Kernel output

A screenshot of a computer program

Description automatically generated

## Day 6

Adding another intermediate router between r1 and h2

A computer code with numbers and letters

Description automatically generated

A screen shot of a computer

Description automatically generated

Data sending stop at there in iperf

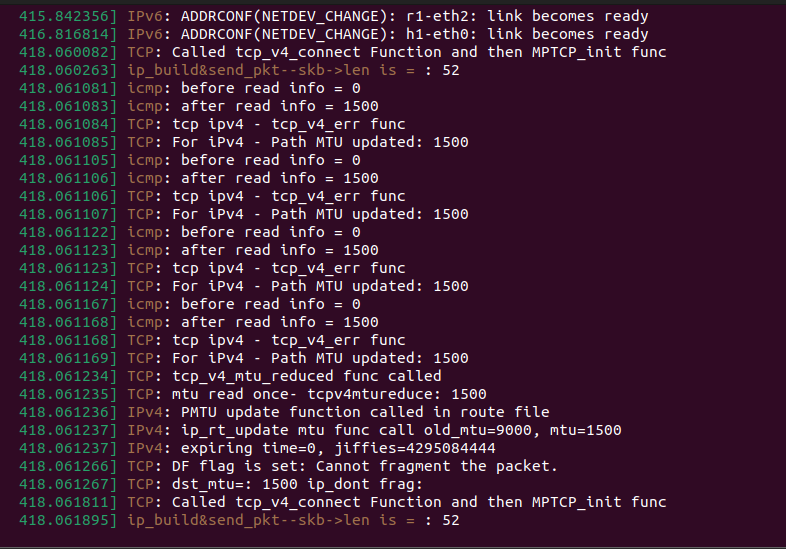
A screenshot of a computer

Description automatically generated

## Day 7

Run MPTCP script

Kernel output



Iperf output

A screenshot of a computer

Description automatically generated

## Day 8

Different MTU for each interface to

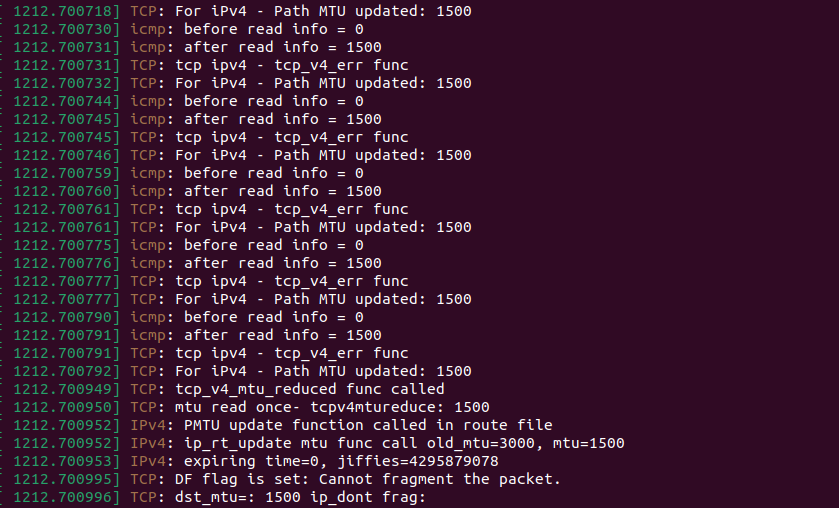
A screenshot of a computer screen

Description automatically generated

A close-up of a computer code

Description automatically generated

Kernel output



Data is transferred in iperf

A screenshot of a computer

Description automatically generated

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Send 1GB file

A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

View pcap file – day 8

A screenshot of a computer

Description automatically generated

Day 9

A screenshot of a computer code

Description automatically generated

A screenshot of a computer

Description automatically generated

Test 2

A screenshot of a computer

Description automatically generatedA close-up of a computer code

Description automatically generated

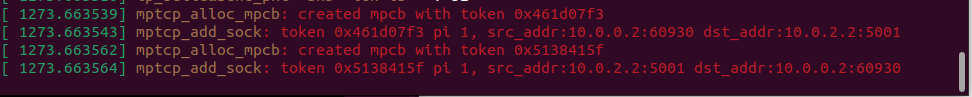
Sudden failure

MPTCP enabled

A screenshot of a computer program

Description automatically generated

Only create 1st link



There was an error in kernel

Now working kernel is

sham@sham:~/mininet$ uname -r

5.4.230.mptcp

Now it establish both links

Verify that the network topology is configured as expected.A screenshot of a computer screen

Description automatically generated

Day 10

Disabled ipv6.

MPTCP is still working fine. This is the packet cap file [pcap](https://drive.google.com/file/d/1YjN9jDJ8GEWKJYYv8kSHgUXSSlxWrJuC/view?usp=sharing).

Before modfy the kernel, run the bottleneck mtu test again.

Sending 100MB

A close-up of a computer code

Description automatically generated

Iperf result

A screenshot of a computer

Description automatically generated

Nothing printed on kernel

A computer screen shot of a program code

Description automatically generated

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Now working on path MTU info of subflows.

Day 11

Modified the kernel to print some info related to MPTCP.

A screenshot of a computer

Description automatically generated

Day 12

According to test results. There is 536 MSS which is not expected one. Other one is 8936 MSS which is supposed to be. Need to find out where from that 536 MSS came. But the default MSS got as 8936.

final returned mss= 8928 on mptcp\_current\_mss func

default mss=8936

Subflow Address: 000000001d538fb6, MSS = 8928, Free Space = 8386688

Subflow Address: 00000000b1d5b55a, MSS = 536, Free Space = 87380

Subflow Address: 000000002923c0b9, MSS = 536, Free Space = 87380

Subflow Address: 0000000011c6d664, MSS = 536, Free Space = 8388608

A screenshot of a computer

Description automatically generated

A computer screen shot of a program

Description automatically generated

A screenshot of a computer program

Description automatically generated

Day 13

MTU probe return -1 which does not enabled correctly. As logs says it was due to snd\_cwnd < 11 (default was 10)

A computer screen with text

Description automatically generated

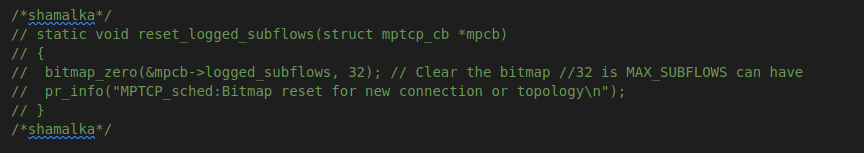
Trying to increase window size. Default was 10. I put to 12

A screenshot of a computer program

Description automatically generated

Day 14

Bad day. ☹Added bit map to take logs of each subflow. Bit after that iperf shows data transferring is not happening.



Day 15

Recover the issue. Back to working mode 😊.

