

## Testing multicast between sites

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This describes how to use software developed by Steve Senger to test whether multicast is working between sites.

The executables are called *MSender* and *MRecver*, there is a Windows and Linux version.

These are command line tools, in Windows you will need to open a command window; in Linux you can use a terminal window.

The *MSender* command sends packets to a specified address and port.

Here is the syntax for how we use the command

```
MSender addr 233.0.32.48 port 36048 ttl 70 source verbose pace 1000000
```

addr - the multicast address

port - port number

ttl - the time to live value for the packet

source - specifies that you are sending data

verbose - prints output to the screen

pace - time between packets in microseconds

The *MRecver* command listens for traffic on a specified address

```
MRecver addr 233.0.32.48 port 36048 sink verbose
```

The sender and receiver need to agree on an address and port value for the testing session. When multicast is enabled then the receiver will see the list of packets received on the screen.

Multicast needs to be tested in both directions to ensure that the network is configured correctly.

Notes: some setting in the Stanford network causes the first packet to be listed multiple times when receiving data (normally 3 or 4)