

# Test Multicast Join (iperf)

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We can test if our device can join a multicast using a tool called **iperf**. **iperf** is not installed by default, so you will have to add it by using:

```
yum install iperf
```

If you see the following error when trying to install iperf:

```
Loaded plugins: fastestmirror
base                                     | 3.6 kB  00:00:00
extras                                 | 3.4 kB  00:00:00
updates                               | 3.4 kB  00:00:00
(1/4): base/7/x86_64/group_gz         | 156 kB  00:00:00
(2/4): extras/7/x86_64/primary_db     | 110 kB  00:00:00
(3/4): updates/7/x86_64/primary_db   | 2.7 MB  00:00:00
(4/4): base/7/x86_64/primary_db      | 5.7 MB  00:00:01
Determining fastest mirrors
 * base: anorien.csc.warwick.ac.uk
 * extras: mirrors.clouvider.net
 * updates: mirrors.coreix.net
No package iperf available.
Error: Nothing to do
```

The last line that states **Error: Nothing to do** means that CentOS doesn't know where to get iperf from (not in the repositories that CentOS is aware of) then you can run the following.

```
yum install epel-release
```

This will install the relevant repositories for CentOS to find iperf. Once again you can run:

```
yum install iperf
```

Once installed, you can use **iperf** to connect to a multicast stream by using the following syntax.

```
iperf -s -u -B 239.0.200.1 -p 10001 -i 1
```

## Example output

```
-----
Server listening on UDP port 10001
Binding to local address 239.0.200.1
Joining multicast group 239.0.200.1
Receiving 1470 byte datagrams
UDP buffer size: 16.0 MByte (default)
-----
[ 3] local 239.0.200.1 port 10001 connected with 10.27.250.1 port 10000
[ ID] Interval      Transfer    Bandwidth      Jitter    Lost/Total Datagrams
[ 3] 0.0- 1.0 sec   775 KBytes  6.35 Mbits/sec 1472463338220.286 ms 1195888311/1195888914 (1e+02%)
[ 3] 0.0- 1.0 sec   595 datagrams received out-of-order
[ 3] 1.0- 2.0 sec   775 KBytes  6.35 Mbits/sec 1590510364122.785 ms   0/    0 (-nan%)
[ 3] 1.0- 2.0 sec   603 datagrams received out-of-order
[ 3] 2.0- 3.0 sec   775 KBytes  6.35 Mbits/sec 1477144115030.008 ms   0/    0 (-nan%)
[ 3] 2.0- 3.0 sec   603 datagrams received out-of-order
[ 3] 3.0- 4.0 sec   775 KBytes  6.35 Mbits/sec 1472946740641.257 ms   0/    0 (-nan%)
[ 3] 3.0- 4.0 sec   603 datagrams received out-of-order
```

[ 3] 4.0- 5.0 sec 775 KBytes 6.35 Mbits/sec 1264384362197.854 ms 6/ 7 (86%)

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