

# Using ffprobe to verify stream

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Using **netstat** and **ip**, we can see what multicasts are present on an interface, we can use **iperf** to join that multicast, and **tcpdump** to record it.

Another tool we can use is **ffprobe**, which is part of **ffmpeg**. **ffprobe** allows us to analyse the stream to verify it is what we expect (the correct resolution, codec, audio etc).

## Installation

Before we can use ffprobe we will have to install ffmpeg. However, to do this we will have to also add the **ATRPMS** repository to CentOS.

## Adding ATRPMS Repository

ATRPMS is a 3<sup>rd</sup> party rpm repository providing up to date packages for Red Hat based systems. We can use it for directly downloading packages or we can use one of the available package manager tools.

To enable atrpms yum repository first login to system using root access. Now import ATRpms signing key for verifying packages using following command.

```
rpm --import http://packages.atrpms.net/RPM-GPG-KEY.atrpms
```

Now create repository file with .repo extension under /etc/yum.repos.d/ directory and add following content as per your operating system.

All the users of RHEL, CentOS and Scientific Linux with all other derived distributions. Create a atrpms.repo file in /etc/yum.repos.d directory and add following content.

```
vi /etc/yum.repos.d/atrpms.repo
```

```
[atrpms]
name=Fedora Core $releasever - $basearch - ATRpms
baseurl=http://dl.atrpms.net/el$releasever-$basearch/atrpms/stable
gpgkey=http://ATRpms.net/RPM-GPG-KEY.atrpms
enabled=1
gpgcheck=1
```

Save the file and exit. (<https://tecadmin.net/setup-atrpms-repository-on-centos-redhat-and-fedora/>)

## Install FFMPEG

ffprobe is part of ffmpeg, so we need to install ffmpeg to get this tool.

```
yum install ffmpeg
```

Some basic ffmpeg commands

ffmpeg -version:	show version
ffmpeg -formats:	show available formats
ffmpeg -codecs:	show available codecs
ffmpeg -decoders:	show available decoders
ffmpeg -encoders:	show available encoders
ffmpeg -bsfs:	show available bit stream filters
ffmpeg -protocols:	show available protocols
ffmpeg -filters:	show available filters

Last  
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```
ffmpeg -pix_fmts:      show available pixel formats
ffmpeg -layouts:       show standard channel layouts
ffmpeg -sample_fmts:   show available audio sample formats
```

Now the installation is done we can do a test (<https://tecadmin.net/install-ffmpeg-on-centos/#>)

## Using FFPROBE

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