**Aim**: Download and Installation of NS-2 in a Linux/UNIX environment

**Theory:**

NS2 is a network simulator program; it is freely available on the internet to download for academic research purpose. NS2 can be compiled and run both in a UNIX and under Cygwin for windows environment. It is important to note that NS2 is fairly large and requires around 300 MB hard disk space for installation. In order to run and install NS2 you need a PC with a C++ compiler and UNIX operation system (FreeBSD, Linux, SunOS, or Solaris).

It is the easy way to quick download and install the ns2. Latest version can download from the following link by using any web browser.

<http://www.isi.edu/nsnam/ns/ns-build.html#allinone>

<http://sourceforge.net/projects/nsnam/files/allinone/ns-allinone-2.34/>

This ns-allinone-2.34.tar.gz contains all necessary components and some other optional components for running ns. I would suggest who hasn't installed NS-2 previously would be better to get the ns-allinone package and install it.

**Steps to install NS-2 in a Linux/UNIX environment**

It is more easy to install NS2 in Linux than the window OS. Following are the steps or installation of ns-allinone-2.34 on Fedora Core /Linux environment.

NS 2 INSTALLATION IN LINUX:

STEP 1:

Download Ns2 package from http://sourceforge.net/projects/nsnam/files/allinone/ns-allinone-2.34/ You should be logged in as a root because root has all rights to configure the system.

STEP 2:

Copy the ns-all –in-one-2.3.4.tar.gz file in to the root

STEP 3: Open Terminal and Navigate to folder in which ns package is pasted STEP 4: Please check gcc & g++ libraries are installed

STEP 5:

Untar the zip file using the tar command [ tar -zxvf ns-allinone-2.34.tar.gz ]

STEP 6:

Navigate in to folder using command >>> [ cd ns-allinone-2.34 ]

STEP 7:

Now install the ns 2 by using. /install command.

TO RUN NS FILE:

STEP 1:

Create the path which is like given below PATH=$PATH: /root/ns all-in-one/bin

STEP 2:

To run ns2 type the command ns( filename)which file you are going to run.

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| **Conclusion:** |

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| **Post Lab:**   1. Explain the trace file format. |

Signature of Faculty Date of Completion