

Student Download instructions for:

# NS2

## Notes

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- You will need to download multiple pieces of software which are all listed on the page in the Getting the Pieces. Below are the compulsory pieces of software that you will need to install

## Instructions

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- Go to: <https://www.isi.edu/nsnam/ns/ns-build.html>

### Compulsory pieces

#### Getting the Pieces

**Important:** Please check the [bug fixes](#) after you finish installation!

Ns depends on several externally available components. Below is a summary of where to get them and where they may already be (if you're a VINT developer). Since the components depend on each other, you should build them in the listed order.

##### Tcl/Tk

Download source:

- A modestly up to date Tcl/Tk version [Tcl/Tk 8.5](#)
  - web page: [Tcl Developer Xchange resources](#)
- Note that while more up to date versions of Tcl/Tk are available and may work, we have only tested up through version 8.5.10.

##### otcl

Download source:

- [version 1.14 \(released Oct 30 2011\)](#)
- [daily snapshot](#)
- [anonymous CVS](#) (package "otcl")
- web page: <http://otcl-tclcl.sourceforge.net/otcl/>

##### TclCL (the package formerly known as libTcl)

Download source:

- The latest version [tclcl-1.20 \(released Oct 30, 2011\)](#)
- [daily snapshot](#)
- [anonymous CVS](#) (package "tclcl")
- web page: <http://otcl-tclcl.sourceforge.net/tclcl/>

##### ns-2

Download source:

- [most recent release](#) (ns-2.35 released Nov 4 2011)
- [daily snapshot](#)
- [anonymous cvs](#) (module "ns-2").

There may be known problems with the current version of ns; please check the [ns installation problems web page](#) for patches.

- Depending on what you are trying to do, you may need optional components – see below

## Optional Pieces

### **nam-1** (optional)

Download source:

- [most recent release](#) (nam-1.15 released Nov 4 2011)
- [daily snapshot](#),
- [anonymous cvs](#) (module "nam-1").
- web page: <http://www.isi.edu/nsnam/nam/>

You can find pre-built binary of nam-1.11 for Linux/freeBSD from the [nam page](#).

### **xgraph** (optional, but needed for test suites)

Download source: [version 12.1](#), or by [anonymous cvs](#) (module "xgraph"). web page: <http://www.isi.edu/nsnam/xgraph/>.

(This version is maintained by the ns maintainers and includes portability fixes over the [older 12.0 release](#).)

### **perl** (optional, but needed for test suites)

Download source: [latest stable release](#); web page: <http://language.perl.com/>

Note that version 5.003 or later is required.

### **tcl-debug** (optional, available for Tcl debugging help)

Download source: [version 1.7](#); web page: <http://expect.nist.gov/tcl-debug/>. This version will work with Tcl/Tk 8.0 release.

### **dmalloc** (optional, available for memory debugging)

Download source: [version 4.8.0](#). web page: <http://www.dmalloc.com>; specify `--with-dmalloc` during configure to include.

### **sgb2ns conversion program** (optional, needed to convert GT-ITM output to ns-2 format)

Download source: [sgb2ns conversion program](#). For more info on GT-ITM topology generators see [GT-ITM Topology Generator](#).

### **tiers2ns conversion program** (optional, needed to convert Tiers output to ns-2 format)

Download source: [tiers2ns.awk](#). For more info on Tiers topology generators see [Tiers Topology Generator](#).

### **Cweb and sgb source code** (optional, required to create sgb-library that is used by gt-itm and sgb2ns programs)

Download cweb source from [cweb ftp page](#)

Download sgb source code from [sgb ftp page](#)

VINT developers at ISI can find all of these packages in `/nfs/filb2/public/pkg`.