Welcome to Statistics Orienation: Computing Overview

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Today's Agenda:

- General Introduction (Blair)

- Windows Tools for Statistics (Slava)

- UNIX Tools for Statistics (Bo)

- Lunch

- Greetings from Department Chair Kathy Ensor

- Hands on tutorial in Symonds II lab, UNIX and Windows basics

Goals of Orientation:

- Logging on to windows and UNIX machines around campus (putting your 6 passwords to good use), information to set up your own machine if you choose

- Viewing the web in UNIX/Windows

- Checking email in UNIX/Windows

- Ability to typeset mathematics ($\LaTeX$), and to know the basics of Splus

- Ability to create a web page (as the TA for a class or for your own research/resume)

- Knowing where to go for help

Campus Network:

A network is a neighborhood of computers. In general, their addressing scheme is `xxx.xxx.xxx.xxx`, where `xxx` are integers between 0 and 255. This is an internet protocal (IP) address. At Rice, these numbers are `128.42.xxx.xxx`. In the statistics department, most computers have an address of `128.42.20.xxx` or `128.42.16.xxx`.

Why is this important? For printing, email, browsing the web, it's important to know the IP numbers of the machines that have your mail and allow you to connect to the web.

Since it is inconvenient to remember these numbers, the machines also have names, for example thor.stat.rice.edu and `128.42.16.2` are the same.

CAMPUS NETWORK (cont.):

IMPORTANT: Some machines (stat unix, owlnet) back up your account on a daily basis, while some (statistics windows machines) do not. If your hard drive fails on your office windows machine, everything on that disk is gone. **BACKUP** your windows files to the UNIX servers! You have been warned.

Campus Network (cont.):

STAT: Intended for research work (esp unix servers), email home, no quotas, different passwords for unix (mail) and windows machines
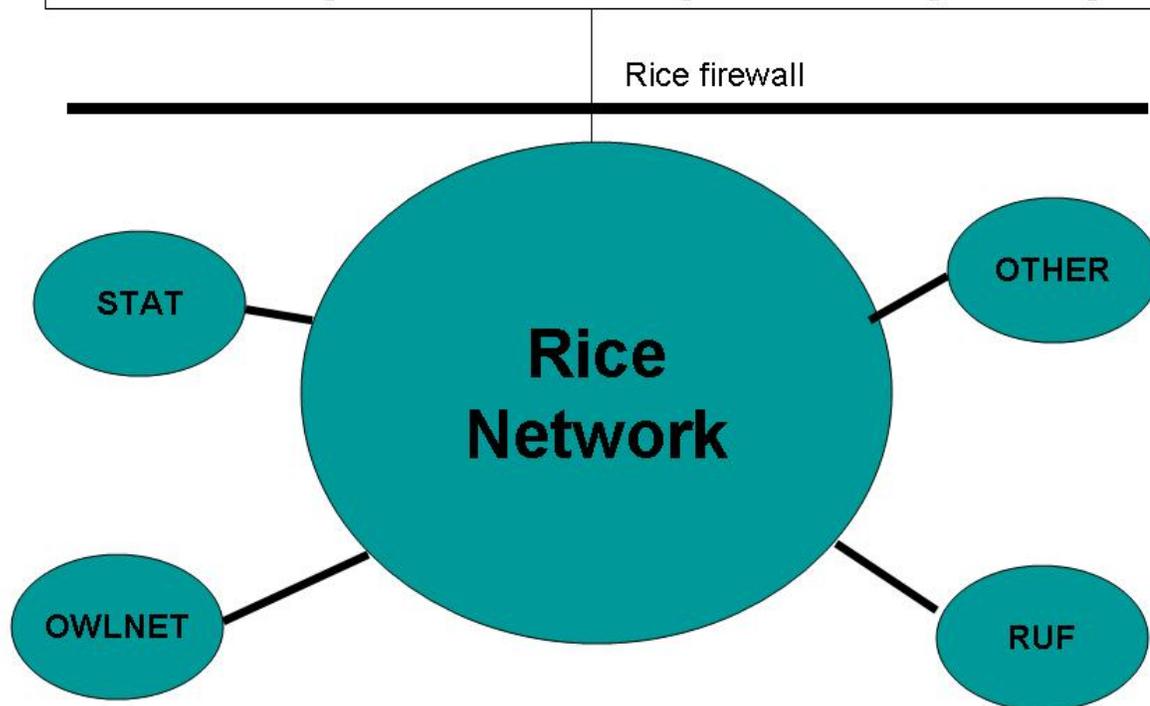
OWLNET: Intended for class work, quota (100/120 MB), different passwords for unix and windows machines

RUF: More for departments without servers, a general Rice Unix Facility for anyone at Rice, quota (10/15 MB?), location of vet, a powerful university wide research-only server, different passwords for unix and windows machines
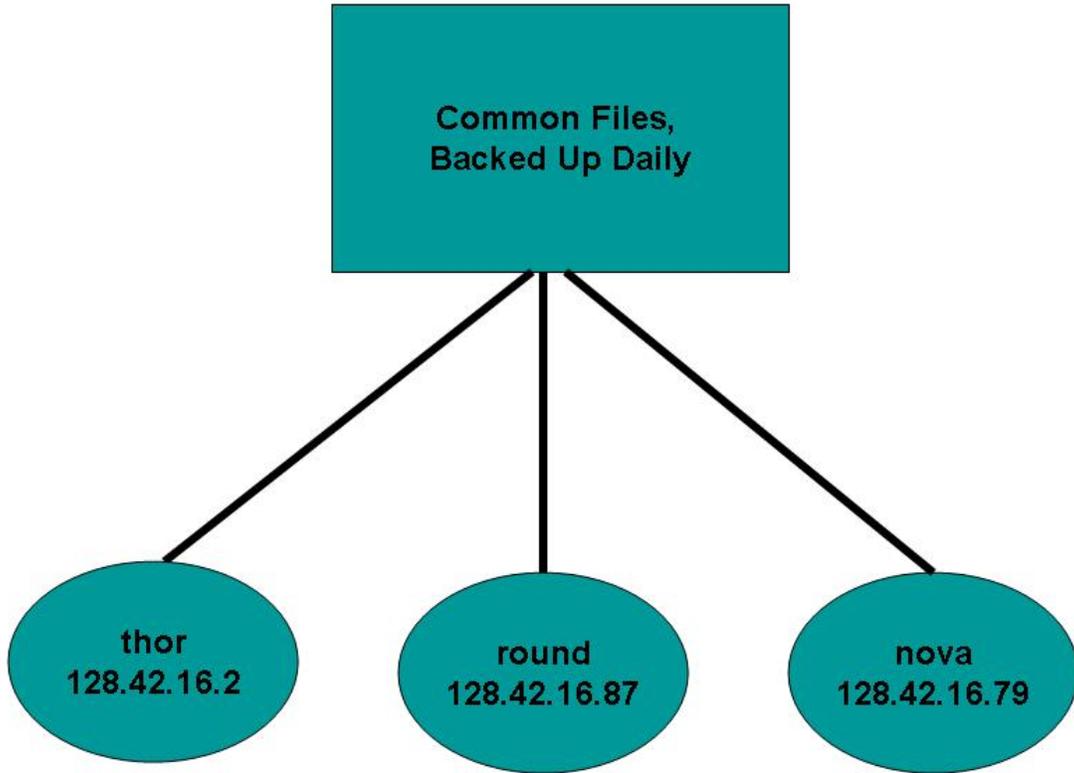
Other networks exist, CAAM (CAAM dept), MATH, RTC (Rice Terascale Cluster), etc, and you are assigned accounts as necessary
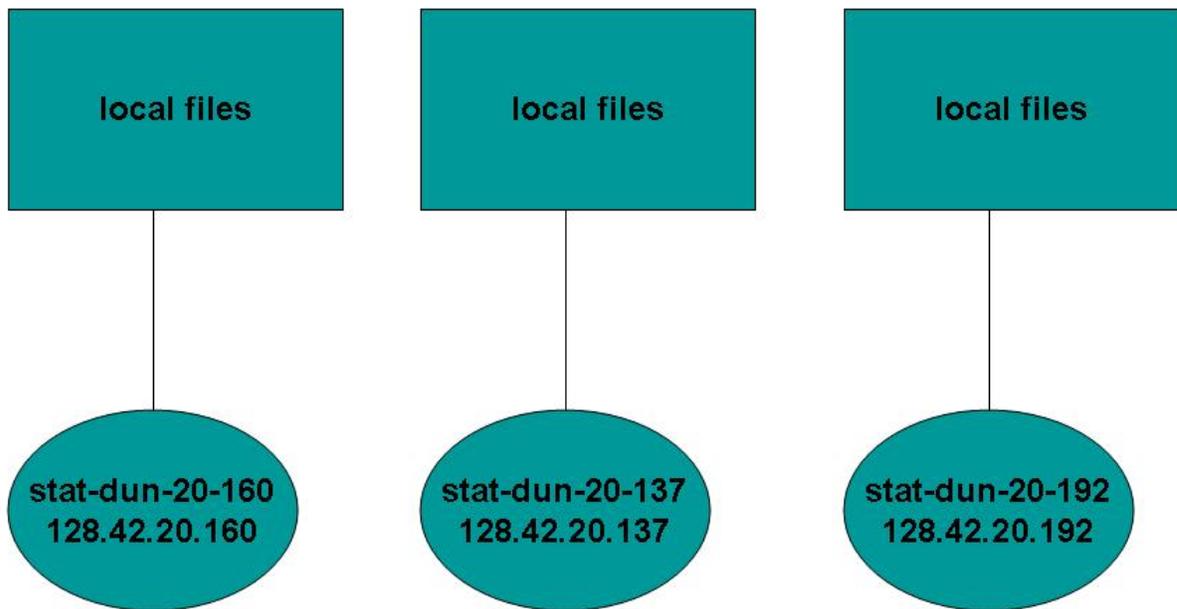
Campus Network in Pictures:

Stat UNIX Files

Stat Windows Files

Owlnet UNIX and Windows Files

Common Files,
Backed Up Daily

jungle (unix)
128.42.49.103

zed (unix)
128.42.51.79

sym-pc1 (win)
128.42.60.213
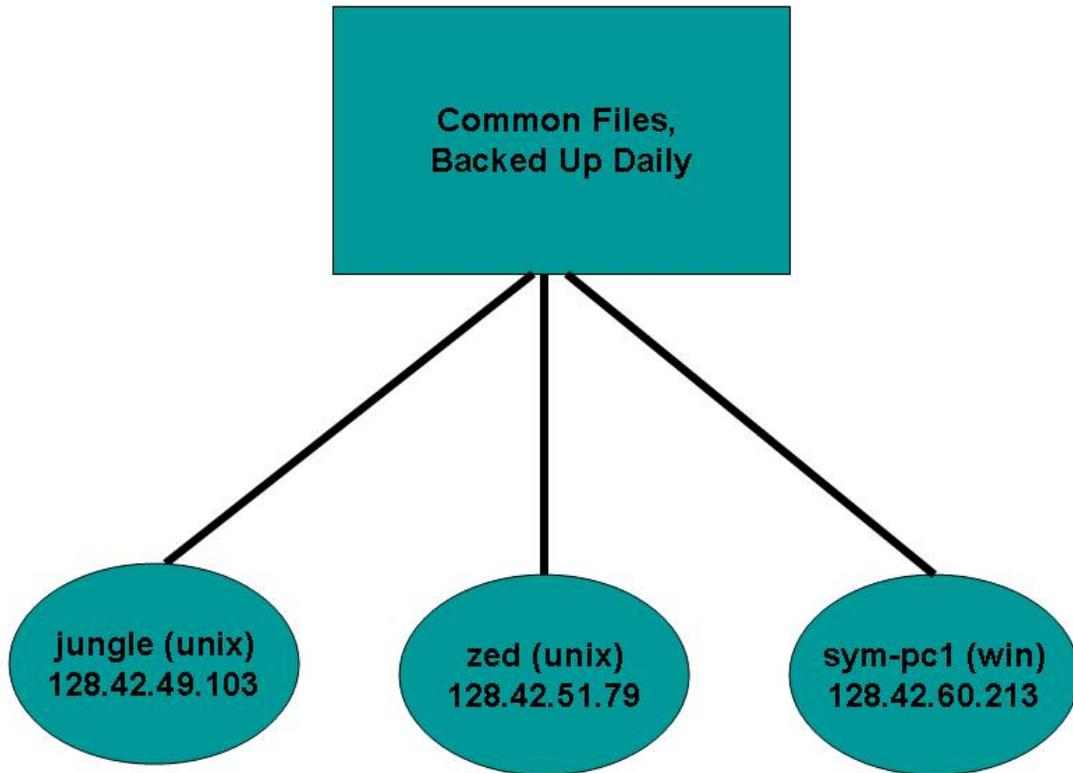
Accessing Other Machines:

MACHINES: Occassionally, you will want to use a UNIX machine while at your PC, or use a different PC from your PC. There are several possibilities here.

And want to connect to this machine

	Windows	UNIX
Windows	Remote Desktop	Xwin/SSH
UNIX	rdesktop (experimental)	SSH

You are on this machine

Accessing Files on Other Machines:

You go home to finish a presentation that you left on the unix server or your office PC. How do you get it?

And want to access files on this machine

	Windows	UNIX
Windows	Remote Desktop, Shared Files	SFTP, map network drive
UNIX	samba	SFTP, SCP

You are on this machine

Options for Computing in the Department:

- Use a department owned windows (you or IT may administer), Linux (you or IT may adminster) or Unix (rice IT administered) machine

- Bring in your own machine (administer yourself)

- Be a luddite

Accessing Rice Computing from Off-Campus:

Options:

- Rice dialup (56k modem, `http://apply.rice.edu`, get a charon account), direct access to all Rice computing, online library journals, esther, etc, but slow

- Local ISP (aol, DSL, cable modem, etc), access is fastest with roadrunner cable modem, access only to a few key machines on campus (stat unix machines, snowy.owlnet), need a VPN account (email `problem@rice.edu`) to access all Rice online resources (journals, owlnet servers, esther, etc)

Software Provided:

- **Personal Machines:** free software includes McAfee virus protection, Splus, MATLAB, X-win, SSH, linux (all), Maple, Mathematica, several others (checkout from Rebecca Gage, `rgage@rice.edu`, or `http://software.is.rice.edu`)

- **University Owned Machines:** free software includes Windows XP Pro, Visual Studio, several others

- **Department/Advisor must purchase:** Office (Word, Excel, PowerPoint, Access, Outlook), SAS, VMware

Accounts and Passwords:

UNIX: statistics network (your email), owlnet, ruf

Windows: statistics/engineering, owlnet (used in library), ruf

Off-campus Access: charon account (to dialup), VPN account (to access Rice from an ISP, use MATLAB from home, access online journals at Rice library, etc)

Help!?

- Email `problem@rice.edu`, and carbon-copy `helpdesk@stat.rice.edu` and `dbrown@stat.rice.edu`

- Fill our form at `http://www.problem.rice.edu`, and list `helpdesk@rice.edu` and `dbrown@stat.rice.edu` as intersted parties

- If it's small and specific to the statistics network (ie helpdesk), you can start by emailing `helpdesk`, who can decide if you need to submit a real problem