

Running program  
- process

Linux packages (Characteristics)

- 1 each package is a single file
- 2 package rely on other programs to do the work of installing the software
- 3 packages contain dependency information
- 4 packages contain version information
- 5 packages contain architecture information
- 6 binary packages are built from source

Particulars

Software installation task

- 1 cmd is issued to install a program
- 2 Software locates dependencies of the specified program
- 3 user issues find approval for software installation
- 4 Software downloads one of the necessary package
- 5 Software installs all the packages

yum , dnf - rpm

apt - deb

Sudo - Super user do

/sbin/init

- Starting up all other basic programs that Linux needs to run

children

- programs launched by init

parent

- process that launched a program

PID

- process ID , starts with 1

PPID

- parent process ID

Identify processes

- ps - provides information at only a single moment in time

- top - interactive version of PS

kill or stop processes using PID

Program with a memory leak consumes increasing amounts of memory

Mem

- reviews total RAM Statistics

buffer cache - total RAM being used actively

Swap

- measures how much swap space Linux is using

(disk space set aside as an adjunct

to memory)

log files

- usually stored in /var/log

- frequently rotated

- plain text

- syslog /syslogd

kernel log

- handles logging message from the kernel

separately from ordinary programs

System messaging

- technique wherein a log daemon accepts messages from other processes

Kernel ring buffer

- debugging

- invaluable in diagnosing hardware and driver problems

Mem

- shows which processes is using the most memory