Important Utilities

Tools that can augment your productivity

Utilities

- find locating files and processing them
- tar, gzip etc packaging collections of files
- make conditional actions

find

find [pathnames] [conditions]

-name	pattern to match filenames
-type	File type code eg., c for character file, d for directory, l for symbolic link etc.,
-atime	Files accessed +n (more than n), -n (less than n) days ago
-ctime	File changed +n (more than n), -n (less than n) days ago
-regex	Regular expression for <i>pattern</i> of filenames Combine with -regextype posix-basic, posix-egrep etc.,
-exec	Command to run using { } as place holder for filename
-print	Print the full path name of matching files

file packaging

- Deep file hierarchies
- Large number of tiny files
- tar: collect a file hierarchy into a single file
- gzip: compress a file
- Applications: backup, file sharing, reduce disc utilization

Possibilites

- tar, zip
- compress (ncompress), gzip (ncompress), bzip2
 (bzip2), xz (xz-utils), 7z (p7zip-full)
- Tarballs like bundle.tgz for package + compress
- Time & memory required to shrink / expand versus size ratio
- Portability
- Unique names using timestamp, process ID etc., for backup tarballs

make

make -f make.file

```
# comments
TMP\_FILES = *.o *.aux
.PHONY : clean
target : prerequisites
   recipe $(OPTION_NAME)
clean:
   rm -f $(TMP_FILES)
```