

Topics: Files, System Files, the Manual, Buffering

Approach: Write our own versions of Unix programs

Featured Commands:

who
cp
tail

Main Ideas:

I/O redirection, pipes
standard directories/files
the manual tells all
open, read, write, close
Unix time
'expensive' operations
buffered input/output

Applications:

who0 : writing a system utility
the manual, the header files

who1 : reading and displaying data
the utmp file
open(), read()

who2 : displaying dates and times
ctime()

cp : writing data, creating files
creat(), open()
write()
effect of buffer size:
efficiency, system calls, buffering

who3 : making who more efficient
more buffering

kernel buffering
speedier disk access

tail
lseek()
what it does
how it does it

If Time Permits:

exclusive access
using files as locks