

본 강의에 들어가기 전

shell

UNIX Shells

- ▶ sh(Bourne)
 - ▶ 개발자 : S. R. Bourne
 - ▶ prompt: \$
- ▶ ksh(Korn)
 - ▶ 개발자 : David Korn
 - ▶ prompt : \$
- ▶ csh(C)
 - ▶ 개발자 : Bill Joy
 - ▶ prompt : %

Shell 기능 비교

기능	Bourne	Korn	C
Availability	most	least	Berkeley UNIX some System V
Variables	local global(export)	local global(export)	local(set) global(setenv)
Control commands	if-then-else-fi case-esac select for-do-done xargs while-do-done until-do-done	if-then-else-fi case-esac for-do-done xargs while-do-done until-do-done	if-then-else-endif switch-case-endsw foreach-end repeat while-end
Conditional evaluations	test, expr	direct	direct
Interactive		history	history
Aliasing	functions	functions	alias
Signal	trap	trap	
Efficiency	fast	medium	medium

metacharacters

▶ 일반

*	matches any string of characters (including none)
?	matches any single alphanumeric character
[..]	matches any single character or series of characters within the brackets

▶ ksh

~	your home directory
~-	previous working directory
~userid	userid's home directory
~+	current working directory

special characters

charcters	purpose	examples
#	shell comment	# execute command
;	sequential command separator	cmd1; cmd2; cmd3
\	quote a character to remove special meaning	*
&	background	cmd1&
()	groups the <i>stdout</i> of commands	(cmd1 cmd2; cmd3)
	pipe	cmd1 cmd2
<	input redirection	cmd1 < file1
>	output redirection	cmd2 > file2
#{var}	shell variables	#{variables}
`cmd`	substitute <i>stdout</i>	var=`cmd2`
'string'	quote all the characters	'1,000'
"string"	quote all characters but allow substitution	"#{var} \$1"
{ cmd1; cmd2 }	execute commands in current shell	

Setup files

Bourne and Korn shells	C shell	Purpose
/etc/profile		system-wide setup procedure
.profile		user-specific setup for sh or ksh 전역 변수를 설정하거나, PATH 추가, 환영 메시지 출력 등 함수 정의
	.cshrc	user-specific setup for csh 셸 변수 설정(set) alias 지정
	.login	commands executed at <i>login</i> 터미널 문자 지정 환경변수 지정(setenv) stty erase '^H'
	.logout	commands executed at <i>logout</i>

.profile example for ksh and bash

```
#-----#
#  A sample .profile file for Korn shell and Bash users  #
#-----#

PATH=$PATH:/usr/local/bin:/usr/gnu/bin:.

set -o vi          # enable the ability to recall previous commands with
PS1='$PWD> '      # set the prompt to display the current directory

#-----#
#  a few Korn/Bash shell aliases  #
#-----#

alias lc="ls -C"
alias lm="ls -al | more"
alias dirs="ls -al | grep '^d'"      # show the dir's in the current dir
alias h=history                      # show the history of commands issued

alias nu="who|wc -l"                  # nu - number of users
alias np="ps -ef|wc -l"              # np - number of processes running
alias p="ps -ef"

# mimick a few DOS commands with these aliases:

alias cd..="cd ../../"
alias cd...="cd ../../.."
alias dir="ls -al"
alias edit=vi
alias help=man
alias path="echo $PATH"
```

.cshrc example

```
# .cshrc File

umask 022

set path=( /opt/SUNWspro/bin /export/opt/SUNWspro/bin /usr/lib/nis /usr/local/bin \
          /bin /usr/bin /usr/ucb /usr/lib /etc /usr/etc \
          . )

setenv TERM vt100
setenv LANG ko>&/dev/null
setenv MANPATH /opt/SUNWspro/man:/usr/dt/man: \
              /usr/openwin/man:/usr/man:/usr/local/man
setenv LD_LIBRARY_PATH /opt/SUNWspro/lib:/usr/openwin/lib:/usr/lib: \
                      /usr/dt/lib:~/monitor/lib
set HOSTNAME=`hostname`
set filec
set noclobber
set notify
set mail = (5 /var/mail/$USER)
set prompt="[`whoami`@`hostname`:`pwd`]"
if ( $?prompt ) then
    set history=32
endif
stty erase '^H'
stty cs8 -istrip -parenb
alias setp 'set prompt="[`whoami`@`hostname`:`pwd`]"'
alias cd 'cd \!* ; setp'
alias cls 'clear'
alias l 'ls -al \!* | more'
alias lf 'ls -al \!* | grep -v ^d | more'
alias sc 'source .cshrc'
```