

8장 과제

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1. args.c

```
hey@ubuntu:~/system/8$ gcc -o args args.c
hey@ubuntu:~/system/8$ ./args
argv[0]: ./args
hey@ubuntu:~/system/8$
```

2. environ.c

```
hey@ubuntu:~/system/8$ gcc -o environ environ.c
hey@ubuntu:~/system/8$ ./environ
CLUTTER_IM_MODULE=xim
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.Z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.tzst=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:
LESSCLOSE=/usr/bin/lesspipe %s %s
XDG_MENU_PREFIX=gnome-
LANG=en_US.UTF-8
DISPLAY=:0
GNOME_SHELL_SESSION_MODE=ubuntu
COLORTERM=truecolor
USERNAME=hey
XDG_VTNR=2
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XDG_SESSION_ID=2
USER=hey
DESKTOP_SESSION=ubuntu
QT4_IM_MODULE=xim
TEXTDOMAINDIR=/usr/share/locale/
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/3ad6ce6f_df07_41a1_b1a9_280fd201deb5
PWD=/home/hey/system/8
HOME=/home/hey
TEXTDOMAIN=im-config
SSH_AGENT_PID=1824
QT_ACCESSIBILITY=1
XDG_SESSION_TYPE=x11
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop
XDG_SESSION_DESKTOP=ubuntu
GJS_DEBUG_OUTPUT=stderr
GTK_MODULES=gail:atk-bridge
WINDOWPATH=2
TERM=xterm-256color
```

```

SHELL=/bin/bash
VTE_VERSION=5202
QT_IM_MODULE=xim
XMODIFIERS=@im=ibus
IM_CONFIG_PHASE=2
XDG_CURRENT_DESKTOP=ubuntu:GNOME
GPG_AGENT_INFO=/run/user/1000/gnupg/S.gpg-agent:0:1
GNOME_TERMINAL_SERVICE=:1.89
XDG_SEAT=seat0
SHLVL=1
GDMSESSION=ubuntu
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
LOGNAME=hey
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
XDG_RUNTIME_DIR=/run/user/1000
XAUTHORITY=/run/user/1000/gdm/Xauthority
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
GJS_DEBUG_TOPICS=JS ERROR;JS LOG
SESSION_MANAGER=local/ubuntu:@/tmp/.ICE-unix/1729,unix/ubuntu:/tmp/.ICE-unix/1729
LESSOPEN=| /usr/bin/lesspipe %s
GTK_IM_MODULE=ibus
_=./environ
OLDPWD=/home/hey/system
hey@ubuntu:~/system/8$

```

3. exit.c

```

hey@ubuntu:~/system/8$ gcc -o exit exit.c
hey@ubuntu:~/system/8$ ./exit
main 끝
두 번째 exit 처리기
첫 번째 exit 처리기
hey@ubuntu:~/system/8$

```

4. pid.c

```

hey@ubuntu:~/system/8$ ./pid
나의 프로세스 번호 : [8203]
내 부모 프로세스 번호 : [2881]
hey@ubuntu:~/system/8$ ps
  PID TTY          TIME CMD
 2881 pts/0        00:00:00 bash
 8204 pts/0        00:00:00 ps
hey@ubuntu:~/system/8$ gcc -o pid pid.c
hey@ubuntu:~/system/8$ ./pid
나의 프로세스 번호 : [8203]
내 부모 프로세스 번호 : [2881]
hey@ubuntu:~/system/8$

```

5. printenv.c

```
hey@ubuntu:~/system/8$ gcc -o printenv printenv.c
hey@ubuntu:~/system/8$ ./printenv
HOME = /home/hey
SHELL = /bin/bash
PATH = /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
hey@ubuntu:~/system/8$
```

6. uid.c

```
hey@ubuntu:~/system/8$ gcc -o uid uid.c
hey@ubuntu:~/system/8$ ./uid
나의 실제 사용자 ID : 1000(hey)
나의 유효 사용자 ID : 1000(hey)
나의 실제 그룹 ID : 1000(hey)
나의 유효 그룹 ID : 1000(hey)
hey@ubuntu:~/system/8$
```