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psc@ubuntu: ~
psc@ubuntu:~$ ls
2020203002  Documents  execl  execv  execve  execvp  fork  main.sh  mecro1.c  mecro2.c  Pictures  Templates  wait
Desktop     Downloads  execl.c  execv.c  execve.c  execvp.c  fork.c  mecro1  mecro2  Music  Public  Videos  wait.c
psc@ubuntu:~$ cat fork.c
#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>

int main(){
    printf("pid : %u ppid : %u\n", getpid(), getppid());

    pid_t cpid = fork();

    if(cpid == -1){
        perror("error fork");
        return 1;
    }

    if(cpid > 0){
        printf("<parent> fork return value : %u\n", cpid);
        printf("<parent> pid : %d ppid : %d\n",getpid(), getppid());
        sleep(1);
    }else{
        printf("<child> fork return value : %u\n", cpid);
        printf("<child> pid : %d ppid : %d\n", getpid(), getppid());
    }
    return 0;
}
psc@ubuntu:~$ ./fork
pid : 2320 ppid : 2056
<parent> fork return value : 2321
<parent> pid : 2320 ppid : 2056
<child> fork return value : 0
<child> pid : 2321 ppid : 2320
psc@ubuntu:~$

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psc@ubuntu:~$ ls
2020203002  Documents  execl  execv  execve  execvp  fork  main.sh  mecro1.c  mecro2.c  Pictures  Templates  wait
Desktop     Downloads  execl.c  execv.c  execve.c  execvp.c  fork.c  mecro1  mecro2  Music  Public  Videos  wait.c
psc@ubuntu:~$ cat wait.c
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <unistd.h>

int main(int argc, char const * argv[]){
    int val = 10;

    pid_t pid = 0;
    int status = 0;

    printf("Hello. My PID is : %d\n", getpid());

    pid = fork();

    if(pid == -1)
    {
        perror("fork() error!");
        exit(-1);
    }
    else if (pid == 0)
    {
        printf("I'm child. My PID is : %d\n", getpid());
        printf("I'm child. My parent's PID is : %d\n", getppid());

        val += 1;
    }
    else
    {
        printf("I'm parent. My child's PID is : %d\n", pid);
        wait(&status); //waitpid(pid, &status, 0);
        printf("I'm parent. My child is exited\n");
    }

    printf("My PID is : %d, val is : %d\n", getpid(), val);

    return 0;
}
psc@ubuntu:~$ ./wait
Hello. My PID is : 2337
I'm parent. My child's PID is : 2338
I'm child. My PID is : 2338
I'm child. My parent's PID is : 2337
My PID is : 2338, val is : 11
I'm parent. My child is exited
My PID is : 2337, val is : 10
psc@ubuntu:~$

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psc@ubuntu:~$ ls
2020203002  Documents  execl  execv  execve  execvp  fork  main.sh  mecro1.c  mecro2.c  Pictures  Templates  wait
Desktop    Downloads  execl.c  execv.c  execve.c  execvp.c  fork.c  mecro1  mecro2  Music  Public  Videos  wait.c
psc@ubuntu:~$ cat mecro1.c
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/wait.h>

int main(void){
    pid_t pid = 0;
    int status = 0;

    pid = fork();
    if(pid == -1){
        perror("fork() error!");
        exit(-1);
    } else if(pid == 0){
        printf("I'm child : %d\n", getpid());
        exit(1);
    } else {
        wait(&status);
        if((status == 0) || (status > 255)) {
            printf("Child is exited with : %d\n", status >> 8);
        } else {
            printf("Child is terminated with : %d\n", status);
        }
    }
    return 0;
}
psc@ubuntu:~$ ./mecro1
I'm child : 2352
Child is exited with : 1
psc@ubuntu:~$

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psc@ubuntu:~$ ls
2020203002  Documents  execl  execv  execve  execvp  fork  main.sh  mecro1.c  mecro2.c  Pictures  Templates  wait
Desktop    Downloads  execl.c  execv.c  execve.c  execvp.c  fork.c  mecro1  mecro2  Music  Public  Videos  wait.c
psc@ubuntu:~$ cat mecro2.c
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <unistd.h>

int main(void){
    pid_t pid = 0;
    int status = 0;

    pid = fork();
    if(pid == -1){
        perror("fork() error!");
        exit(-1);
    } else if (pid == 0){
        printf("I'm child : %d\n", getpid());
        exit(1);
    } else {
        wait(&status);
        if(WIFEXITED(status)) {
            printf("Child is exited with : %d\n", WEXITSTATUS(status));
        } else {
            printf("Child is terminated with : %d\n", status);
        }
    }
    return 0;
}
psc@ubuntu:~$ ./mecro2
I'm child : 2360
Child is exited with : 1
psc@ubuntu:~$

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psc@ubuntu: ~  
psc@ubuntu:~$ ls  
2020203002 Documents execl exev exevc exevp fork main.sh mecro1.c mecro2.c Pictures Templates wait  
Desktop Downloads execl.c exev.c exevc.c exevp.c fork.c mecro1 mecro2 Music Public Videos wait.c  
psc@ubuntu:~$ cat execl.c  
#include <stdio.h>  
#include <stdlib.h>  
#include <sys/types.h>  
#include <sys/wait.h>  
#include <unistd.h>  
  
int main(int argc, char const * argv[]){  
    pid_t pid = 0;  
    int status = 0;  
  
    pid = fork();  
    switch(pid){  
        case -1:  
            perror("fork() error!");  
            exit(-1);  
        case 0:  
            execl("/bin/ls", "ls", "-a", "-l", NULL);  
            break;  
    }  
  
    if (pid > 0) { wait(&status); }  
  
    return 0;  
}  
psc@ubuntu:~$ ./execl  
total 300  
drwxr-xr-x 17 psc psc 4096 Sep 26 22:13 .  
drwxr-xr-x 3 root root 4096 Apr 20 20:05 ..  
-rw-rw-r-- 1 psc psc 1775 May 24 10:23 2020203002  
-rw-r--r-- 1 psc psc 1622 Sep 25 04:17 .bash_history  
-rw-rw-r-- 1 psc psc 220 Apr 20 20:05 .bash_logout  
-rw-rw-r-- 1 psc psc 3771 Apr 20 20:05 .bashrc  
drwx----- 13 psc psc 4096 May 24 10:31 .cache  
drwx----- 13 psc psc 4096 Sep 24 17:19 .config  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Desktop  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Documents  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Downloads  
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:34 execl  
-rw-rw-r-- 1 psc psc 445 Sep 24 17:34 execl.c  
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:41 exev  
-rw-rw-r-- 1 psc psc 448 Sep 24 17:41 exev.c  
-rwxrwxr-x 1 psc psc 16920 Sep 26 22:13 exevc  
-rw-rw-r-- 1 psc psc 513 Sep 26 22:13 exevc.c  
-rwxrwxr-x 1 psc psc 16920 Sep 25 04:11 exevp  
-rw-rw-r-- 1 psc psc 445 Sep 25 04:11 exevp.c  
-rwxrwxr-x 1 psc psc 16912 Sep 24 12:25 fork  
-rw-rw-r-- 1 psc psc 559 Sep 24 12:25 fork.c  
drwx----- 3 psc psc 4096 Apr 20 20:52 .gnupg  
drwxr-xr-x 3 psc psc 4096 Apr 20 20:51 .local  
-rw-rw-r-- 1 root root 5278 May 24 18:53 main.sh  
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:26 mecro1  
-rw-rw-r-- 1 psc psc 593 Sep 24 17:16 mecro1.c  
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:27 mecro2  
-rw-rw-r-- 1 psc psc 591 Sep 24 17:27 mecro2.c  
drwx----- 4 psc psc 4096 May 24 10:25 .mozilla  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Music  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Pictures  
-rw-rw-r-- 1 psc psc 807 Apr 20 20:05 .profile  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Public  
drwx----- 2 psc psc 4096 Apr 20 20:52 .ssh  
-rw-rw-r-- 1 psc psc 0 Apr 20 20:53 .sudo_as_admin_successful  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Templates  
drwx----- 6 psc psc 4096 May 24 10:25 .thunderbird  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Videos  
-rw-rw-r-- 1 psc psc 7570 Sep 26 22:13 .vininfo  
-rw-rw-r-- 1 psc psc 1007 May 24 09:44 .vimrc  
-rwxrwxr-x 1 psc psc 17048 Sep 24 16:57 wait
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psc@ubuntu: ~  
psc@ubuntu:~$ cat execl.c  
#include <stdio.h>  
#include <stdlib.h>  
#include <sys/types.h>  
#include <sys/wait.h>  
#include <unistd.h>  
  
int main(int argc, char const * argv){  
    pid_t pid = 0;  
    int status = 0;  
  
    pid =fork();  
    switch(pid){  
        case -1:  
            perror("fork() error!");  
            exit(-1);  
        case 0:  
            execl("/bin/ls", "ls", "-a", "-l", NULL);  
            break;  
    }  
  
    if (pid > 0) { wait(&status); }  
  
    return 0;  
}  
psc@ubuntu:~$ ./execl  
total 300  
drwxr-xr-x 17 psc psc 4096 Sep 26 22:13 .  
drwxr-xr-x 3 root root 4096 Apr 20 20:05 ..  
-rw-rw-r-- 1 psc psc 1775 May 24 10:23 2020203002  
-rw----- 1 psc psc 1622 Sep 25 04:17 .bash_history  
-rw-r--r-- 1 psc psc 220 Apr 20 20:05 .bash_logout  
-rw-r--r-- 1 psc psc 3771 Apr 20 20:05 .bashrc  
drwx----- 13 psc psc 4096 May 24 10:31 .cache  
drwx----- 13 psc psc 4096 Sep 24 17:19 .config  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Desktop  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Documents  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Downloads  
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:34 execl  
-rw-rw-r-- 1 psc psc 445 Sep 24 17:34 execl.c  
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:41 execv  
-rw-rw-r-- 1 psc psc 448 Sep 24 17:41 execv.c  
-rwxrwxr-x 1 psc psc 16920 Sep 26 22:13 execve  
-rw-rw-r-- 1 psc psc 513 Sep 26 22:13 execve.c  
-rwxrwxr-x 1 psc psc 16920 Sep 25 04:11 execvp  
-rw-rw-r-- 1 psc psc 445 Sep 25 04:11 execvp.c  
-rwxrwxr-x 1 psc psc 16912 Sep 24 12:25 fork  
-rw-rw-r-- 1 psc psc 559 Sep 24 12:25 fork.c  
drwx----- 3 psc psc 4096 Apr 20 20:52 .gnupg  
drwxr-xr-x 3 psc psc 4096 Apr 20 20:51 .local  
-rw-r--r-- 1 root root 5278 May 24 18:53 main.sh  
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:26 mecro1  
-rw-rw-r-- 1 psc psc 593 Sep 24 17:16 mecro1.c  
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:27 mecro2  
-rw-rw-r-- 1 psc psc 591 Sep 24 17:27 mecro2.c  
drwx----- 4 psc psc 4096 May 24 10:25 .mozilla  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Music  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Pictures  
-rw-r--r-- 1 psc psc 807 Apr 20 20:05 .profile  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Public  
drwx----- 2 psc psc 4096 Apr 20 20:52 .ssh  
-rw-r--r-- 1 psc psc 0 Apr 20 20:53 .sudo_as_admin_successful  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Templates  
drwx----- 6 psc psc 4096 May 24 10:25 .thunderbird  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Videos  
-rw----- 1 psc psc 7570 Sep 26 22:13 .viminfo  
-rw-rw-r-- 1 psc psc 1007 May 24 09:44 .vimrc  
-rwxrwxr-x 1 psc psc 17048 Sep 24 16:57 wait  
-rw-rw-r-- 1 psc psc 796 Sep 24 16:57 wait.c  
psc@ubuntu:~$
```



```
psc@ubuntu: ~  
Desktop Downloads execl.c execv.c execve.c execvp.c fork.c mecro1 mecro2 Music Public Videos wait.c  
psc@ubuntu:~$ cat execv.c  
#include <stdio.h>  
#include <stdlib.h>  
#include <sys/types.h>  
#include <sys/wait.h>  
#include <unistd.h>  
  
int main(int argc, char const * argv[]){  
    pid_t pid = 0;  
    int status = 0;  
    char * args[] = {"ls", "-a", "-l", NULL};  
  
    pid = fork();  
    switch(pid){  
        case -1:  
            perror("fork() error!"); exit(-1);  
        case 0:  
            execv("/bin/ls", args); break;  
    }  
  
    if(pid > 0) { wait(&status);}  
  
    return 0;  
}  
psc@ubuntu:~$ ./execv  
total 300  
drwxr-xr-x 17 psc psc 4096 Sep 26 22:13 .  
drwxr-xr-x  3 root root 4096 Apr 20 20:05 ..  
-rw-rw-r--  1 psc psc 1775 May 24 10:23 2020203002  
-rw-----  1 psc psc 1622 Sep 25 04:17 .bash_history  
-rw-r--r--  1 psc psc 220 Apr 20 20:05 .bash_logout  
-rw-r--r--  1 psc psc 3771 Apr 20 20:05 .bashrc  
drwx----- 13 psc psc 4096 May 24 10:31 .cache  
drwx----- 13 psc psc 4096 Sep 24 17:19 .config  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Desktop  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Documents  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Downloads  
-rwxrwxr-x  1 psc psc 16920 Sep 24 17:34 execl  
-rw-rw-r--  1 psc psc 445 Sep 24 17:34 execl.c  
-rwxrwxr-x  1 psc psc 16920 Sep 24 17:41 execv  
-rw-rw-r--  1 psc psc 448 Sep 24 17:41 execv.c  
-rwxrwxr-x  1 psc psc 16920 Sep 26 22:13 execve  
-rw-rw-r--  1 psc psc 513 Sep 26 22:13 execve.c  
-rwxrwxr-x  1 psc psc 16920 Sep 25 04:11 execvp  
-rw-rw-r--  1 psc psc 445 Sep 25 04:11 execvp.c  
-rwxrwxr-x  1 psc psc 16912 Sep 24 12:25 fork  
-rw-rw-r--  1 psc psc 559 Sep 24 12:25 fork.c  
drwx----- 3 psc psc 4096 Apr 20 20:52 .gnupg  
drwxr-xr-x  3 psc psc 4096 Apr 20 20:51 .local  
-rw-r--r--  1 root root 5278 May 24 18:53 main.sh  
-rwxrwxr-x  1 psc psc 16968 Sep 24 17:26 mecro1  
-rw-rw-r--  1 psc psc 593 Sep 24 17:16 mecro1.c  
-rwxrwxr-x  1 psc psc 16968 Sep 24 17:27 mecro2  
-rw-rw-r--  1 psc psc 591 Sep 24 17:27 mecro2.c  
drwx----- 4 psc psc 4096 May 24 10:25 .mozilla  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Music  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Pictures  
-rw-r--r--  1 psc psc 807 Apr 20 20:05 .profile  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Public  
drwx----- 2 psc psc 4096 Apr 20 20:52 .ssh  
-rw-r--r--  1 psc psc 0 Apr 20 20:53 .sudo_as_admin_successful  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Templates  
drwx----- 6 psc psc 4096 May 24 10:25 .thunderbird  
drwxr-xr-x  2 psc psc 4096 Apr 20 20:51 Videos  
-rw-----  1 psc psc 7570 Sep 26 22:13 .viminfo  
-rw-rw-r--  1 psc psc 1007 May 24 09:44 .vimrc  
-rwxrwxr-x  1 psc psc 17048 Sep 24 16:57 wait  
-rw-rw-r--  1 psc psc 796 Sep 24 16:57 wait.c  
psc@ubuntu:~$
```

```

pssc@ubuntu:~$ ls
2020203002  Desktop  Documents  execl  excv  execve  execvp  fork  main.sh  micro1.c  micro2.c  Pictures  Templates  wait
Desktop      Downloads  execl.c  excv.c  execve.c  execvp.c  fork.c  micro1  micro2  Music  Public  Videos  wait.c
pssc@ubuntu:~$ cat execve.c
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <unistd.h>

int main(int argc, char const * argv[]){
    pid_t pid = 0;
    int status = 0;
    char * args[] = {"ls", "-a", "-l", NULL};
    char * envp[] = {"USER=pssc", "HOME=/home/pssc", NULL};

    pid = fork();
    switch(pid) {
        case -1:
            perror("fork() error!"); exit(-1);
        case 0:
            execve("/bin/ls", args, envp); break;
    }

    if(pid > 0){ wait(&status);}

    return 0;
}
pssc@ubuntu:~$ ./execve
total 300
drwxr-xr-x 17 psc psc 4096 Sep 26 22:13 .
drwxr-xr-x 3 root root 4096 Apr 20 20:05 ..
-rw-r--r-- 1 psc psc 1622 Sep 25 04:17 .bash_history
-rw-r--r-- 1 psc psc 220 Apr 20 20:05 .bash_logout
-rw-r--r-- 1 psc psc 3771 Apr 20 20:05 .bashrc
drwx----- 13 psc psc 4096 May 24 10:31 .cache
drwx----- 13 psc psc 4096 Sep 24 17:19 .config
drwx----- 3 psc psc 4096 Apr 20 20:52 .gnupg
drwxr-xr-x 3 psc psc 4096 Apr 20 20:51 .local
drwx----- 4 psc psc 4096 May 24 10:25 .mozilla
-rw-r--r-- 1 psc psc 807 Apr 20 20:05 .profile
drwx----- 2 psc psc 4096 Apr 20 20:52 .ssh
-rw-r--r-- 1 psc psc 0 Apr 20 20:53 .sudo_as_admin_successful
drwx----- 6 psc psc 4096 May 24 10:25 .thunderbird
-rw-r--r-- 1 psc psc 7570 Sep 26 22:13 .viminfo
-rw-rw-r-- 1 psc psc 1007 May 24 09:44 .vimrc
-rw-rw-r-- 1 psc psc 1775 May 24 10:23 2020203002
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Desktop
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Documents
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Downloads
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Music
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Pictures
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Public
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Templates
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Videos
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:34 execl
-rw-rw-r-- 1 psc psc 445 Sep 24 17:34 execl.c
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:41 excv
-rw-rw-r-- 1 psc psc 448 Sep 24 17:41 excv.c
-rwxrwxr-x 1 psc psc 16920 Sep 26 22:13 execve
-rw-rw-r-- 1 psc psc 513 Sep 26 22:13 execve.c
-rwxrwxr-x 1 psc psc 16920 Sep 25 04:11 execvp
-rw-rw-r-- 1 psc psc 445 Sep 25 04:11 execvp.c
-rwxrwxr-x 1 psc psc 16912 Sep 24 12:25 fork
-rw-rw-r-- 1 psc psc 559 Sep 24 12:25 fork.c
-rw-r--r-- 1 root root 5278 May 24 18:53 main.sh
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:26 micro1
-rw-rw-r-- 1 psc psc 593 Sep 24 17:16 micro1.c
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:27 micro2
-rw-rw-r-- 1 psc psc 591 Sep 24 17:27 micro2.c
-rwxrwxr-x 1 psc psc 17048 Sep 24 16:57 wait
-rw-rw-r-- 1 psc psc 796 Sep 24 16:57 wait.c
pssc@ubuntu:~$

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```
psc@ubuntu: ~  
psc@ubuntu:~$ ls  
2020203002 Documents execl exexc exexcve exexcvp fork main.sh mecro1.c mecro2.c Pictures Templates wait  
Desktop Downloads execl.c exexc.c exexcve.c exexcvp.c fork.c mecro1 mecro2 Music Public Videos wait.c  
psc@ubuntu:~$ cat exexcvp.c  
#include <stdio.h>  
#include <stdlib.h>  
#include <sys/types.h>  
#include <sys/wait.h>  
#include <unistd.h>  
  
int main(int argc, char const * argv[]) {  
    pid_t pid = 0;  
    int status = 0;  
    char * args[] = {"ls", "-a", "-l", NULL};  
  
    pid = fork();  
    switch(pid){  
        case -1:  
            perror("fork() error!"); exit(-1);  
        case 0:  
            exexcvp("ls", args); break;  
    }  
  
    if(pid > 0) { wait(&status);}  
  
    return 0;  
}  
psc@ubuntu:~$ ./exexcvp  
total 300  
drwxr-xr-x 17 psc psc 4096 Sep 26 22:13 .  
drwxr-xr-x 3 root root 4096 Apr 20 20:05 ..  
-rw-rw-r-- 1 psc psc 1775 May 24 10:23 2020203002  
-rw----- 1 psc psc 1622 Sep 25 04:17 .bash_history  
-rw-r--r-- 1 psc psc 220 Apr 20 20:05 .bash_logout  
-rw-r--r-- 1 psc psc 3771 Apr 20 20:05 .bashrc  
drwx----- 13 psc psc 4096 May 24 10:31 .cache  
drwx----- 13 psc psc 4096 Sep 24 17:19 .config  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Desktop  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Documents  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Downloads  
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:34 execl  
-rw-rw-r-- 1 psc psc 445 Sep 24 17:34 execl.c  
-rwxrwxr-x 1 psc psc 16920 Sep 24 17:41 exexc  
-rw-rw-r-- 1 psc psc 448 Sep 24 17:41 exexc.c  
-rwxrwxr-x 1 psc psc 16920 Sep 26 22:13 exexcve  
-rw-rw-r-- 1 psc psc 513 Sep 26 22:13 exexcve.c  
-rwxrwxr-x 1 psc psc 16920 Sep 25 04:11 exexcvp  
-rw-rw-r-- 1 psc psc 445 Sep 25 04:11 exexcvp.c  
-rwxrwxr-x 1 psc psc 16912 Sep 24 12:25 fork  
-rw-rw-r-- 1 psc psc 559 Sep 24 12:25 fork.c  
drwx----- 3 psc psc 4096 Apr 20 20:52 .gnupg  
drwxr-xr-x 3 psc psc 4096 Apr 20 20:51 .local  
-rw-r--r-- 1 root root 5278 May 24 18:53 main.sh  
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:26 mecro1  
-rw-rw-r-- 1 psc psc 593 Sep 24 17:16 mecro1.c  
-rwxrwxr-x 1 psc psc 16968 Sep 24 17:27 mecro2  
-rw-rw-r-- 1 psc psc 591 Sep 24 17:27 mecro2.c  
drwx----- 4 psc psc 4096 May 24 10:25 .mozilla  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Music  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Pictures  
-rw-r--r-- 1 psc psc 807 Apr 20 20:05 .profile  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Public  
drwx----- 2 psc psc 4096 Apr 20 20:52 .ssh  
-rw-r--r-- 1 psc psc 0 Apr 20 20:53 .sudo_as_admin_successful  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Templates  
drwx----- 6 psc psc 4096 May 24 10:25 .thunderbird  
drwxr-xr-x 2 psc psc 4096 Apr 20 20:51 Videos  
-rw----- 1 psc psc 7570 Sep 26 22:13 .viminfo  
-rw-rw-r-- 1 psc psc 1007 May 24 09:44 .vimrc  
-rwxrwxr-x 1 psc psc 17048 Sep 24 16:57 wait  
-rw-rw-r-- 1 psc psc 796 Sep 24 16:57 wait.c  
psc@ubuntu:~$
```