

管道编程实例

```
#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <unistd.h>

#include <sys/types.h>

#include <sys/wait.h>

int main()

{

    int fd[2];

    int ret = pipe(fd);


    if (ret == -1)

    {

        perror("pipe");

        exit(1);

    }

    pid_t pid = fork();

    if (pid > 0)

    {

        //父进程

        close(fd[0]);                //关闭读的管道

        char *p = "hello,pipe\n";

        write(fd[1], p, strlen(p) + 1);    //写数据

        close(fd[1]);

        wait(NULL);

    }

    else if (pid == 0)

    {

        //子进程

        close(fd[1]);                //关闭写管道

        char buf[64] = { 0 };
```

```
    ret = read(fd[0], buf, sizeof(buf));        //读数据

    close(fd[0]);

    write(STDOUT_FILENO, buf, ret);            //

}

return 0;

}
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <unistd.h>
```

```
int main()
```

```
{

    FILE *r_fp, *w_fp;

    char buf[100];

    r_fp = popen("ls", "r");        //ŦÁÈ;ÃüÁîÖ´ÐÐ½á¹û

    w_fp = popen("wc -l", "w");      //½«¹ÜµÀÖÐµÄÊý¾Ý´«µÝ,ø½ø³l

    while (fgets(buf, sizeof(buf), r_fp) != NULL)

        fputs(buf, w_fp);

    pclose(r_fp);

    pclose(w_fp);

    return 0;

}
```