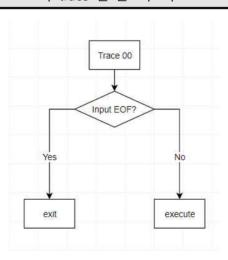
2018 시스템 프로그래밍 - Lab 06 -

제출일자	2018.
분 반	00
이 름	노효근
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Trace 00

각 trace 별 플로우 차트



trace 해결 방법 설명

```
if (feof(stdin)) { /* End of (ille (ctrl-d) )/
    fflush(stderr);
    fflush(stderr);
    exit(0);
}
```

- fflush로 input 값이 EOF가 들어오면 명령 shell창을 종료한다.

Trace 번호 01

```
a20150204982018-sp:~/shlab-handout$ ./sdriver -V -t 01 -s ./tshref
Running trace01.txt...
Success: The test and reference outputs for trace01.txt matched!
Test output:

# trace01.txt - Process builtin quit command.

#

Reference output:

# trace01.txt - Process builtin quit command.

# a20150204982018-sp:~/shlab-handout$ ./sdriver -V -t 01 -s ./tsh
Running trace01.txt...
Success: The test and reference outputs for trace01.txt matched!
Test output:

# trace01.txt - Process builtin quit command.

# Reference output:

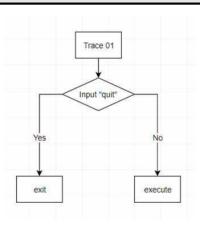
# trace01.txt - Process builtin quit command.

# Reference output:

# trace01.txt - Process builtin quit command.

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```

각 trace 별 플로우 차트



trace 해결 방법 설명

- eval()함수에서 입력 받은 명령어를 파싱한다. 파싱된 명령어를 builtin_cmd()함수로 전달한다. 해당 명령어가 "quit"인 경우를 비교하여 쉘을 종료하도로 하게 한다.

Trace 번호 02

```
a201502049@2018-sp:~/shlab-handout$ ./sdriver -V -t 02 -s./tsh
Running trace02.txt...
Success: The test and reference outputs for trace02.txt matched!
Test output:

# # trace02.txt - Run a foreground job that prints an environment variable

# IMPORTANT: You must pass this trace before attempting any later

# traces. In order to synchronize with your child jobs, the driver

# relies on your shell properly setting the environment.
OSTYPE=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games

Reference output:

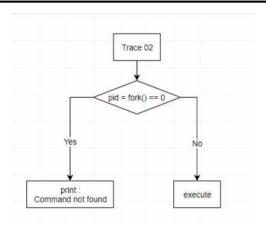
# trace02.txt - Run a foreground job that prints an environment variable

# IMPORTANT: You must pass this trace before attempting any later

# traces. In order to synchronize with your child jobs, the driver

# relies on your shell properly setting the environment.
OSTYPE=/usr/local/sbin:/usr/local/bin:/usr/sbin:/sbin:/bin:/usr/games:/usr/local/games
```

각 trace 별 플로우 차트



trace 해결 방법 설명

- fork() 함수를 부르면 자식 프로세스를 만들게 된다. 부모의 프로세스 pid는 0이 아니고, 자식 프로세스의 pid 는 항상 0으로 생성된다. 조건문에 따라서 자식프로세스는 해당 print 문을 실행하게 된다.