

Ex no: 5

Date: 12.3.24

SYSTEM CALL TRACING

Aim:

To write a C program and trace system calls used and print the same in ascending order using shell script.

Algorithm:

1. Create a C program with an output statement helloworld.
2. Compile and trace system calls while executing the executable file.
3. The output of the system calls trace is put in hellotrace file.
4. Shellscript to read the contents of hellotrace file and print only system call name as output.

Program Code:

```
// helloworld.c
```

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

```
void main()
```

```
{
```

```
    printf("Hello World\n");
```

```
}
```

```
// systemcall.sh
```

```
cat hellotrace | cut -f1-d"(" "
```

Output:

"HelloWorld"

execve

brk

mmap2

access

open

fstat64

mmap2

close

open

read

fstat64

close

Set-thread-area

Result: The above commands are executed
Successfully

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