

Princeton University
COS 217: Introduction to Programming Systems
Trace of testforkret

```
% gcc217 testforkret.c -o testforkret
```

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Trace of testforkret

```
% ./testforkret
```

```
29409
```

```
int main(void)
{
    pid_t iPid;
    printf("%d parent\n",
        (int)getPid());
    fflush(stdin);
    fflush(stdout);
    iPid = fork();
    if (iPid == 0)
        printf("%d child\n",
            (int)getPid());
    else
        printf("%d parent\n",
            (int)getPid());
    printf("%d parent and child\n",
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    return 0;
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29409 parent
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concurrent

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29410
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Assume OS gives CPU to parent

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concurrent

Writes:

29409 parent and child

Assume OS gives CPU to parent

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29410
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0

Writes:

29410 child

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```
29410
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0

Writes:

29410 parent and child

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