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

```
% gcc217 testfork.c -o testfork
```

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Trace of testfork

```
% ./testfork
```

```
29285
```

```
int main(void)
{
   printf("%d parent\n",
      (int)getPid());
   fflush(NULL);
   fork();
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
}
```

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```
% ./testfork
```

29285

```
int main(void)
{
   printf("%d parent\n",
      (int)getPid());
   fflush(NULL);
   fork();
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
}
```

Writes:

```
29285 parent
```

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```
% ./testfork
```

```
29285
```

```
int main(void)
{
   printf("%d parent\n",
      (int)getPid());
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   fork();
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      (int)getPid());
   return 0;
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```

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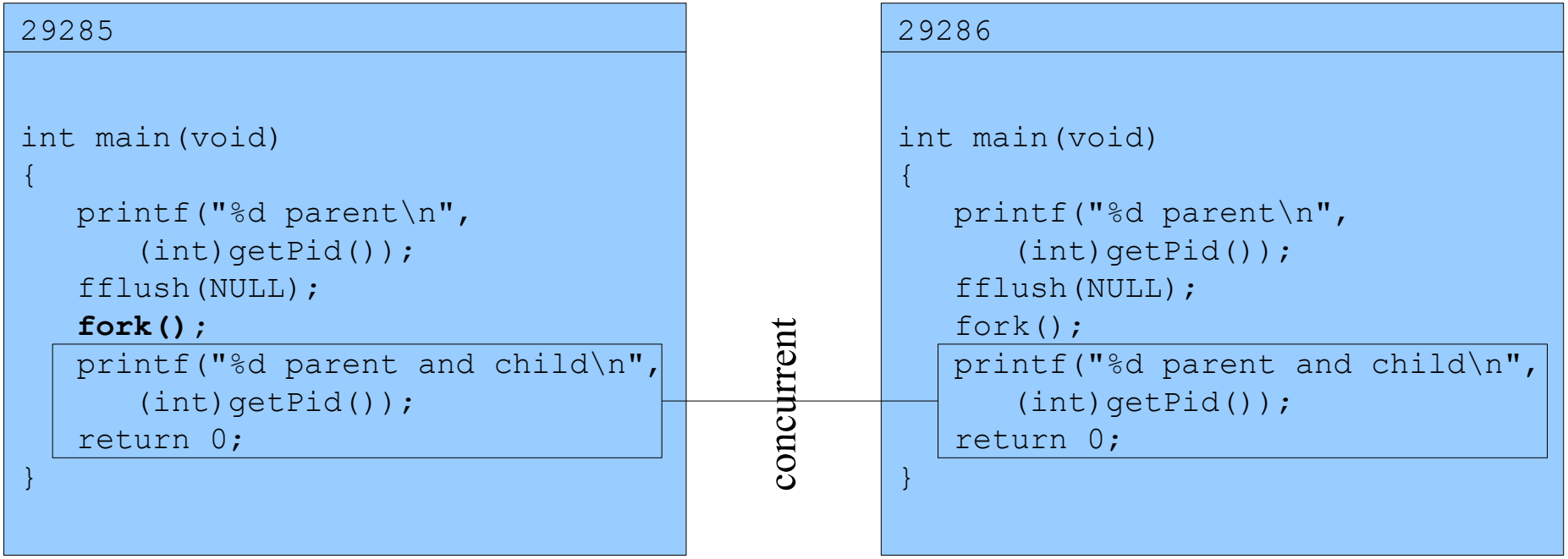
```
% ./testfork
```



Assume OS gives CPU to parent

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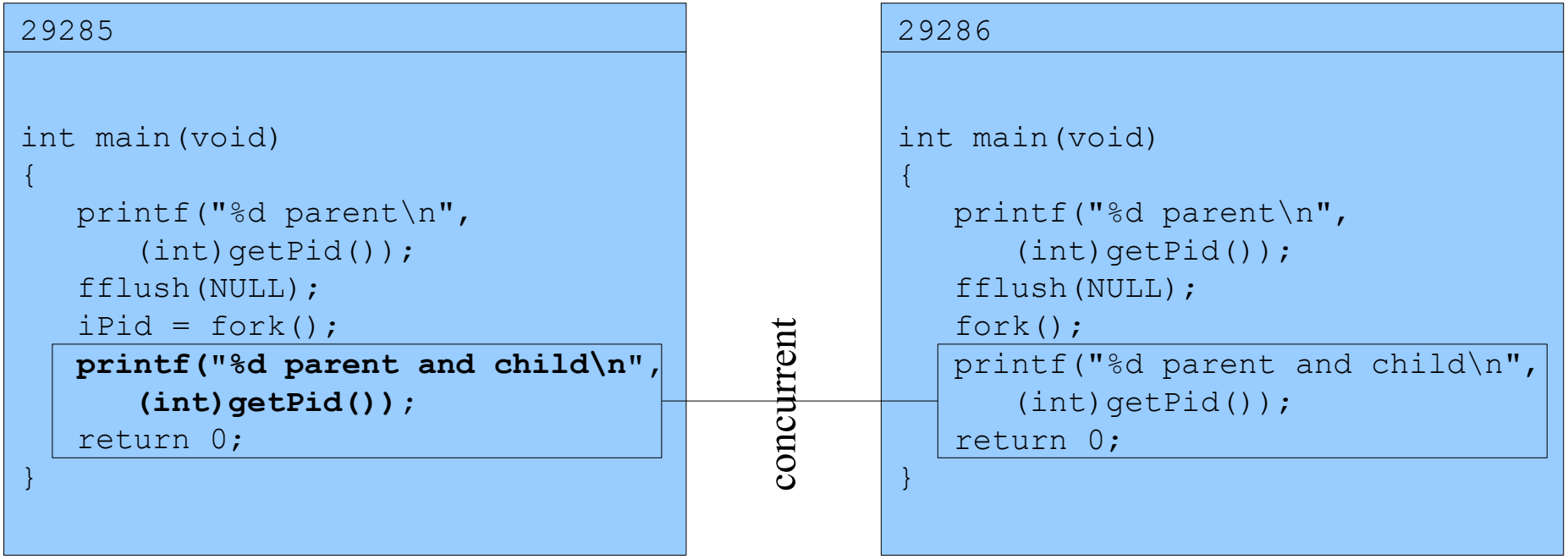
```
% ./testfork
```



Writes:

```
29285 parent and child
```

Assume OS gives CPU to parent

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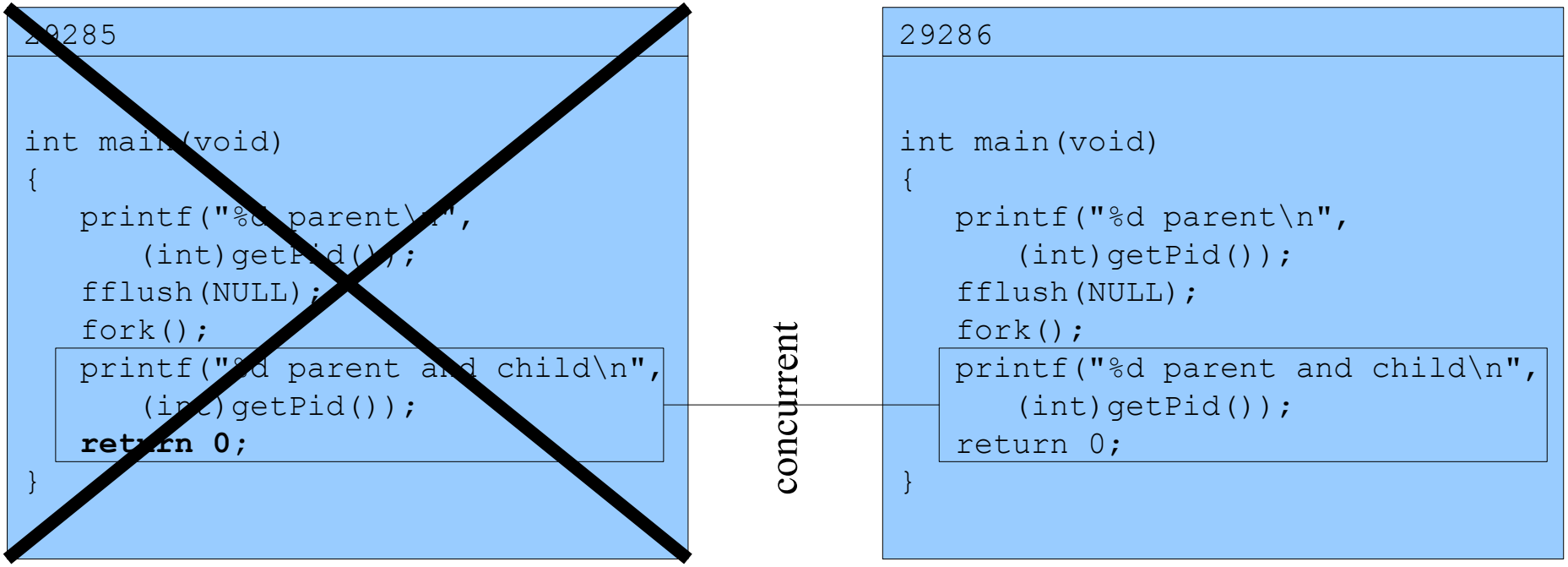
```
% ./testfork
```



Assume OS gives CPU to parent

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```
% ./testfork
```

```
29286
```

```
int main(void)
{
   printf("%d parent\n",
      (int)getPid());
   fflush(NULL);
   fork();
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
}
```

Writes:

```
29286 parent and child
```

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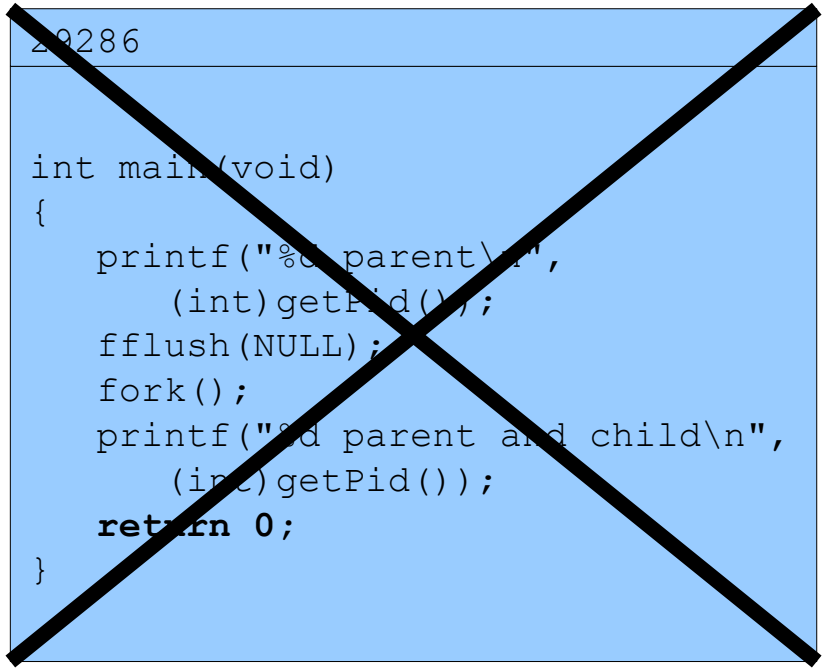
```
% ./testfork
```



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%

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