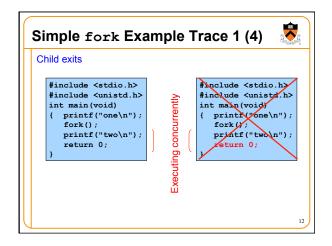
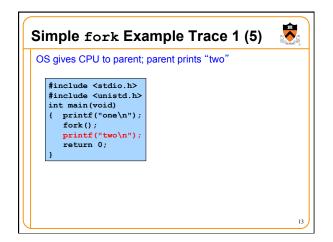
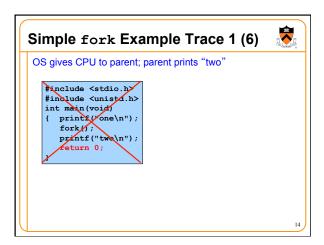
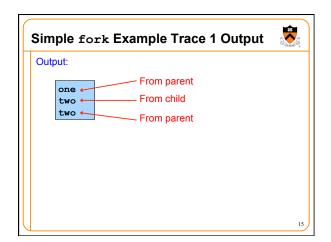


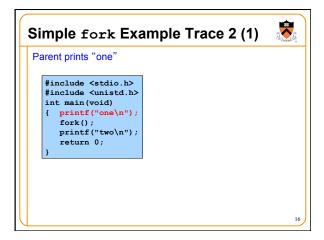
```
Simple fork Example Trace 1 (3)
OS gives CPU to child; child prints "two"
   #include <stdio.h>
                                 #include <stdio.h>
   #include <unistd.h>
                                 #include <unistd.h>
   int main(void)
                                 int main(void)
   { printf("one\n");
                                 { printf("one\n");
      fork();
                                    fork();
     printf("two\n");
                                    printf("two\n");
     return 0:
                                    return 0:
```

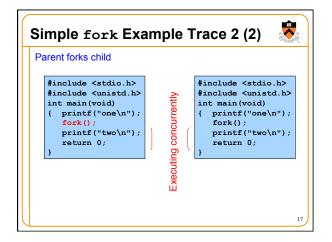


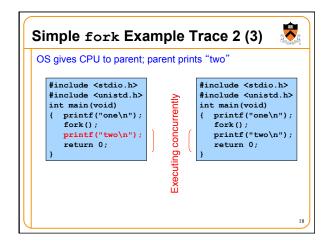


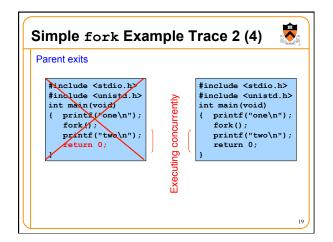


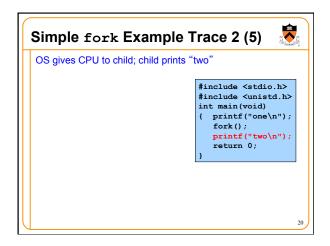


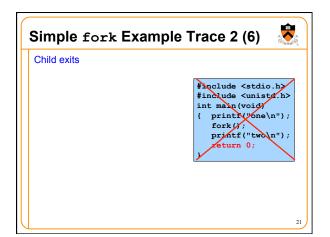


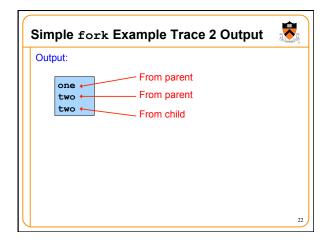


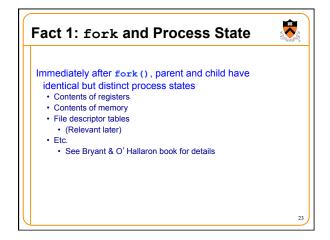


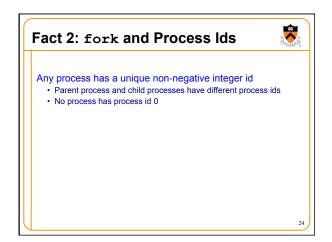


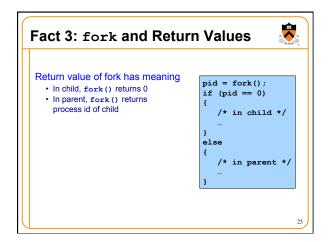


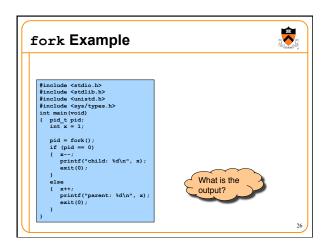


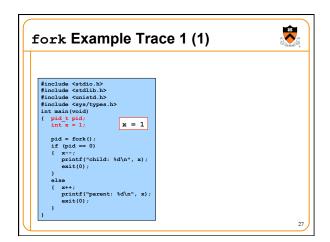


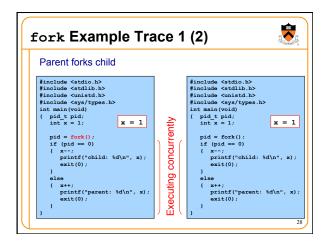


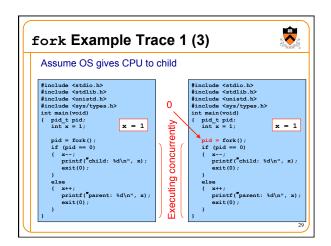


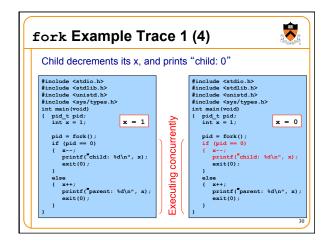


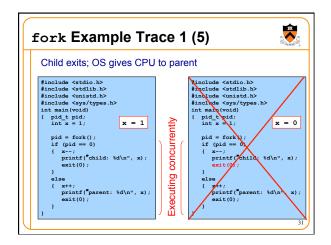


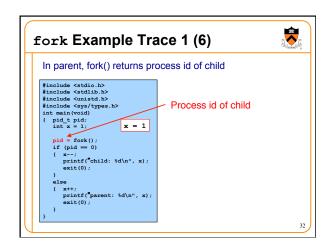


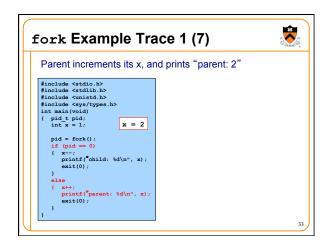


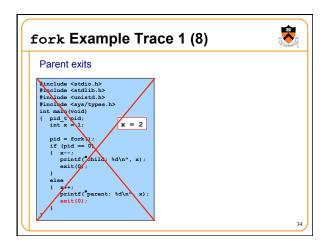


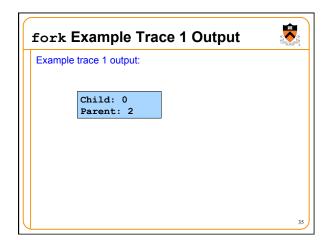


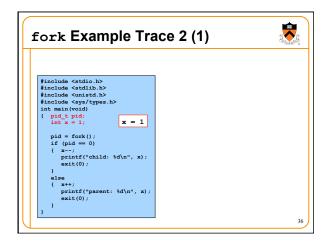


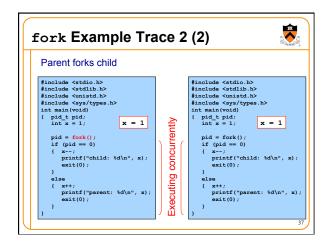


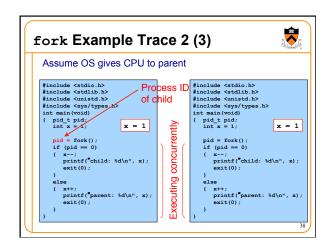


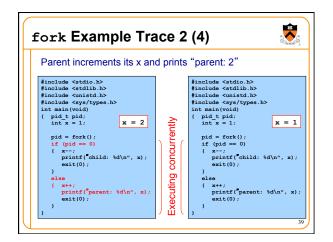


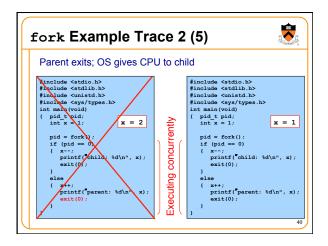


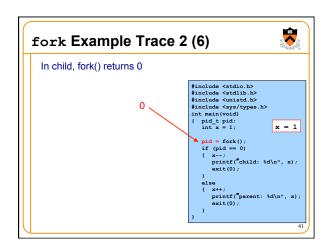


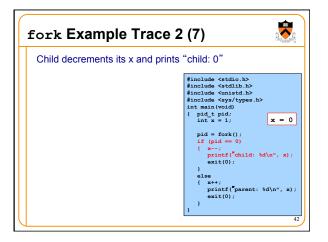


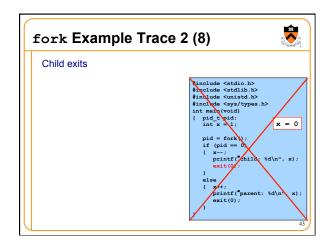


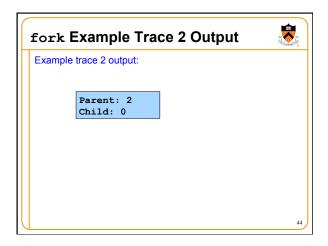


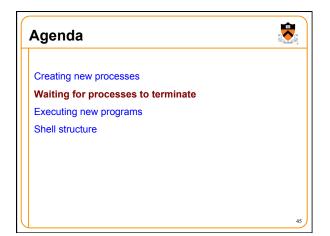


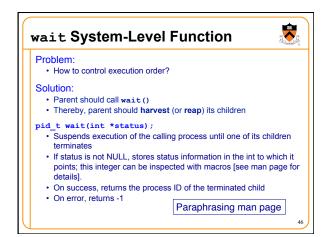


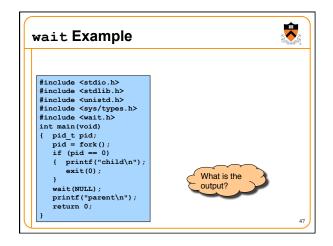


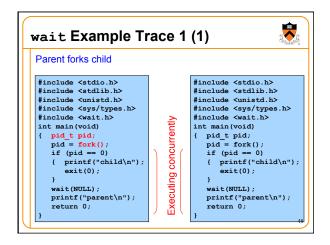


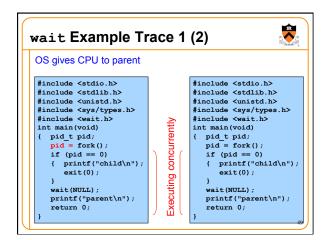


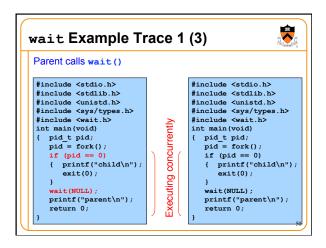


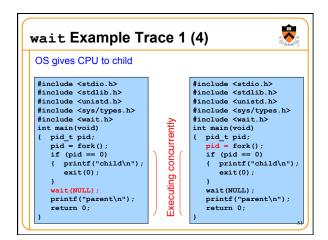


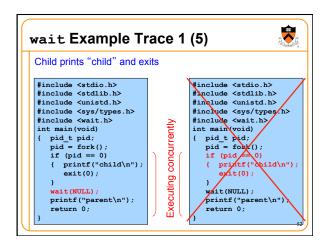


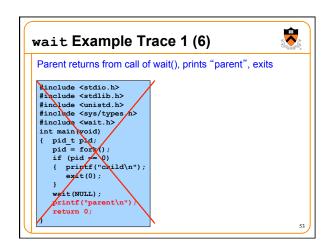


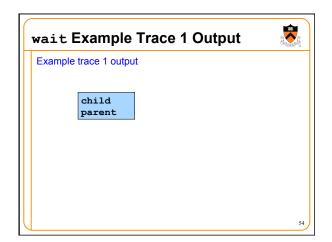


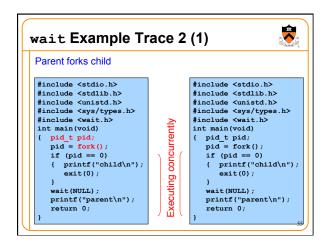


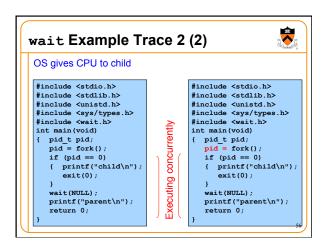


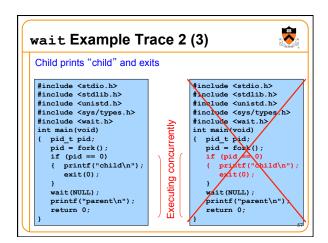


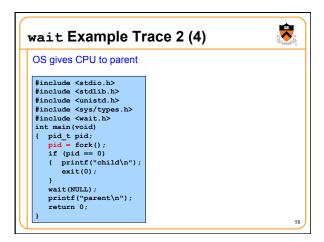








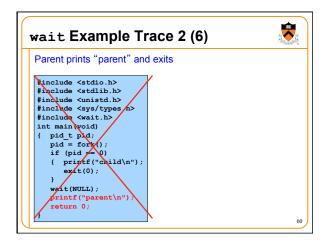


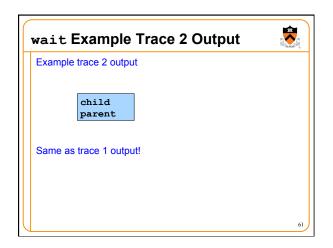


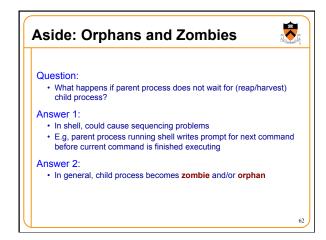
```
wait Example Trace 2 (5)

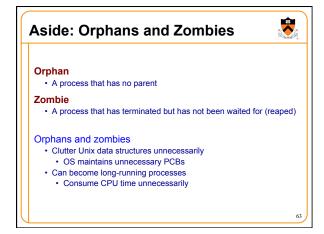
Parent calls wait(); returns immediately

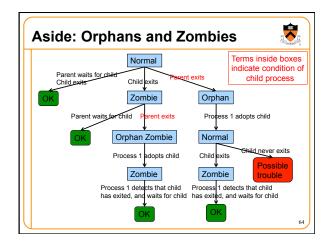
#include <stdio.h>
#include <stdib.h>
#include <unistd.h>
#include <unistd.h>
#include <ws/types.h>
#include <wait.h>
int main(void)
{ pid_t pid;
 pid_t pid;
 pid_f ork();
 if (pid == 0)
 { printf("child\n");
 exit(0);
 }
 wait(NULL);
 printf("parent\n");
 return 0;
}
```

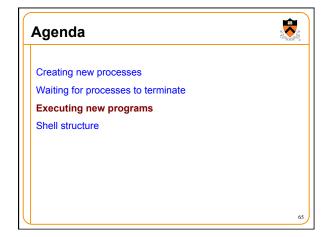


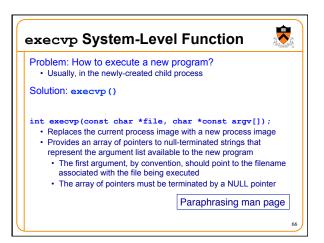


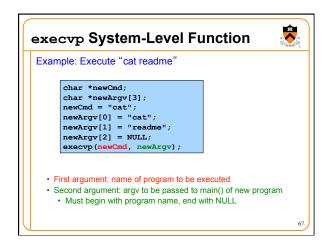


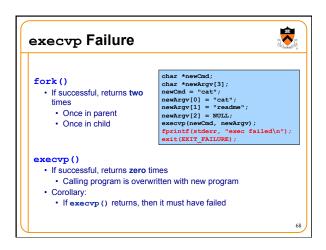


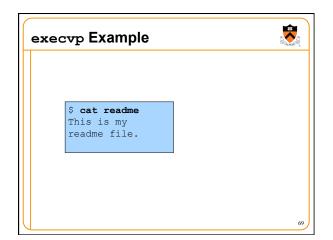


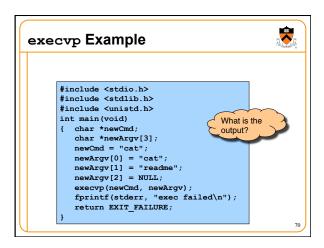












```
execvp Example Trace (1)

Process creates arguments to be passed to execvp()

#include <stdio.h>
#include <stdib.h>
#include <unistd.h>
int main(void)
{    char *newCmd;
    char *newCreat;
    newArgv[0] = "cat";
    newArgv[1] = "readme";
    newArgv[2] = NULL;
    execvp(newCmd, newArgv);
    fprintf(stderr, "exec failed\n");
    return EXIT_FAILURE;
}
```

```
execvp Example Trace (2)

Process executes execvp()

#include <stdio.h>
#include <unistd.h>
int main(void)
{ char *newCmd;
 char *newCmd;
 newArgy[0] = "cat";
 newArgy[0] = "cat";
 newArgy[0] = "readme";
 newArgy[0] = NULL;
 execvp(newCmd, newArgy);
 fprintf(stderr, "exec failed\n");
 return EXIT_FAILURE;
}
```

