



### 3 selected POSIX functions

- create new process copying current: `fork()` — return new pid in parent (old), 0 in child (new)
- `pipe(fds)` — create a pipe, set `fds[0]` to the file descriptor for the read end, `fds[1]` for the write end
- `write(fd, buffer, size)` write `size` bytes from `buffer` to the file descriptor `fd`
- `read(fd, buffer, size)` read up to `size` bytes from `buffer` to the file descriptor `fd`, return total bytes read or 0 on end-of-file
- `dup2(from_fd, to_fd)` makes `to_fd` refer to the same open file as `from_fd`
- `waitpid(pid, 0, NULL)` wait for the child process with ID `pid` to terminate
- `kill(pid, signal_number)` — send signal `signal_number` to process `pid`
- `sigaction(signal_number, &act_struct, NULL)` — configure signal handler for the specified signal based on the information in `act_struct`

### 4 make syntax

```
target: prerequisites
    command
    command
    ...
```

- default rule is first rule
- pattern rules: use % to represent base of filename (e.g. `%.o: %.c` for `x.o` from `x.c`)
- selected automatic variables:

<code>\$@</code>		target of current rule
<code>\$&lt;</code>		first prerequisite of current rule
<code>\$^</code>		all prerequisites of current rule
<code>\$*</code>		'stem' of a pattern rule (what the % matched)