

Select Pattern 11/3/08

Note Title

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Initialize-1

Build a data structure containing all the fds of interest

- ordinary fds or sockets - on Unix
- only sockets - on Windows
- ex: array called servSock[]
- fill in as you create and bind and connect the sockets.
- don't forget to compute maxDescriptor as you go.

Initialize - 2 - in the main loop of the server :

Each time through.

```
FD_ZERO (& sockset);
```

```
for ( i = 0; i < numSockets; i++) {
```

```
    FD_SET ( servSock[i], & sockset);
```

```
}
```

```
select Timeout.tv_sec = timeout;
```

```
select Timeout.tv_usec = 0;
```

Down to business

```
res = select (maxDescriptor + 1,
              readfds, writefds, exceptionfds,
              &socket, NULL, NULL, &selTimeout);
if (res < 0) ... error handling
if (res == 0) ... timeout ...
for (i = 0; i < numSockets; i++) {
    if (FD_ISSET (servSock[i], &socket)) {
        do whatever processing for servSock[i]
    }
}
```

repeat forever