

# Mirage/kFreeBSD

(in a nutshell...)

echo.ml:

**open** Lwt

```
let main mgr interface id =  
  let src = None, 8081 in  
  Net.Flow.listen mgr ('TCPv4 (src,  
    (fun (addr, port) t ->  
      let address = Ipaddr.V4.to_string addr in  
      OS.Console.log (Printf.sprintf "From_%s:%d\n" address port);  
      let rec loop () =  
        lwt res = Net.Flow.read t in  
        match res with  
          | None      -> OS.Console.log "Connection_closed\n";  
            return ()  
          | Some data -> Net.Flow.write t data >>=  
            loop  
      in loop ()  
    )))
```

```
echo.conf:
```

```
# IP configuration (optional)
```

```
# ip-use-dhcp: true
```

```
# Static IP (optional)
```

```
ip-address: 10.0.2.235
```

```
ip-netmask: 255.255.255.0
```

```
ip-gateway: 10.0.2.2
```

```
# File system (optional)
```

```
# fs-static: ../fs
```

```
# Main function
```

```
main-ip: Echo.main
```

```
# Dependencies
```

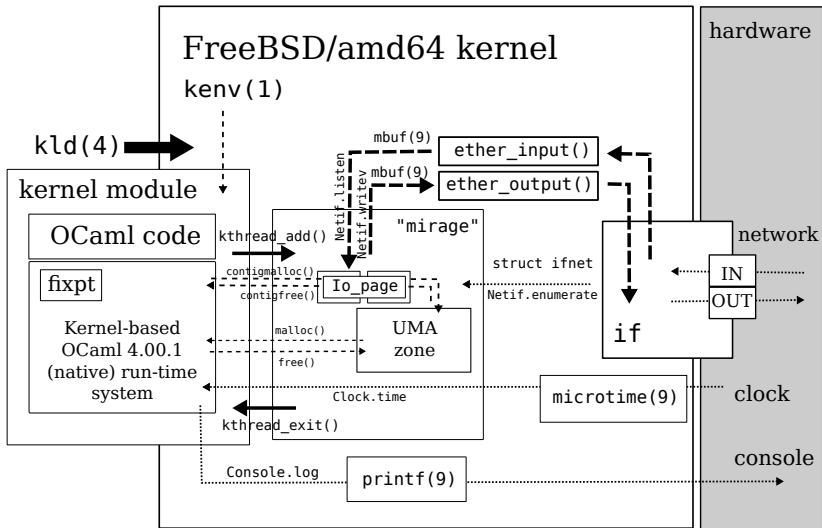
```
depends: mirage-net, ipaddr
```

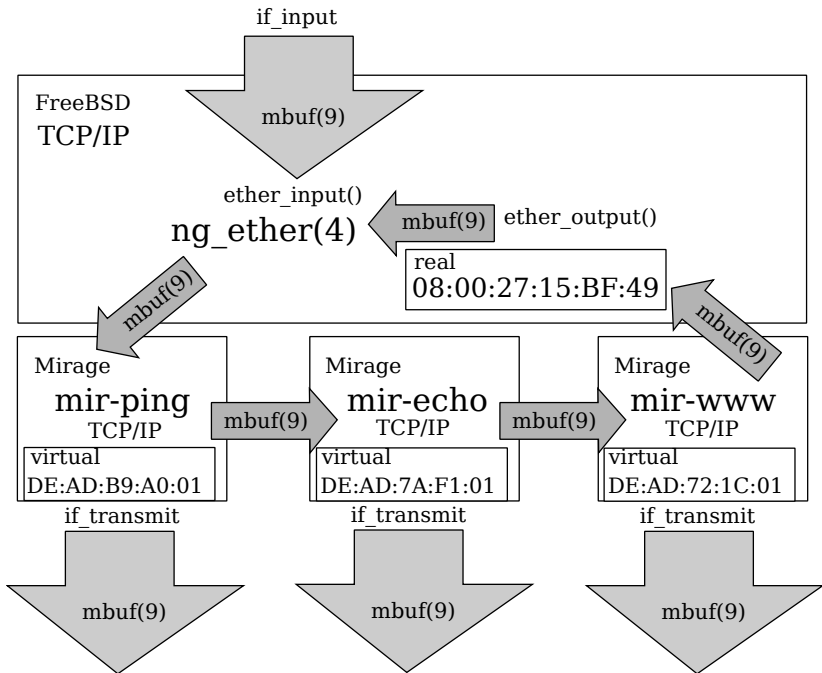
```
packages: mirage, mirage-net, ipaddr
```

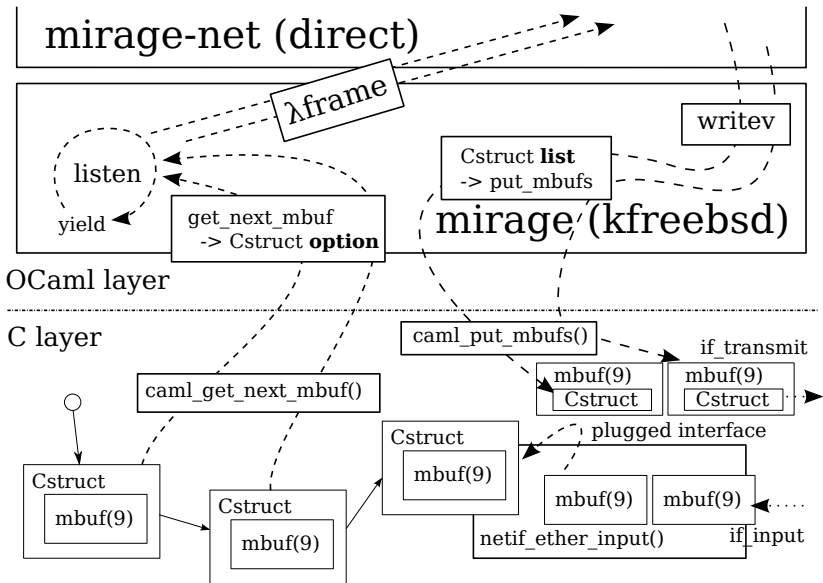
```
$ mirari configure --kfreebsd echo.conf
```

```
$ mirari build --kfreebsd echo.conf
```

```
$ mirari run --kfreebsd echo.conf
```







## Links:

<http://openmirage.org/>  
(Mirage home page)

<http://github.com/mirage>  
(GitHub repositories)

<http://try.ocamlpro.com/>  
(Try OCaml)

<http://opam.ocamlpro.com/>  
(OPAM package manager)

<http://github.com/pgj/mirage-platform>  
(kFreeBSD backend)

<http://github.com/pgj/mirari>  
(kFreeBSD-enabled mirari)