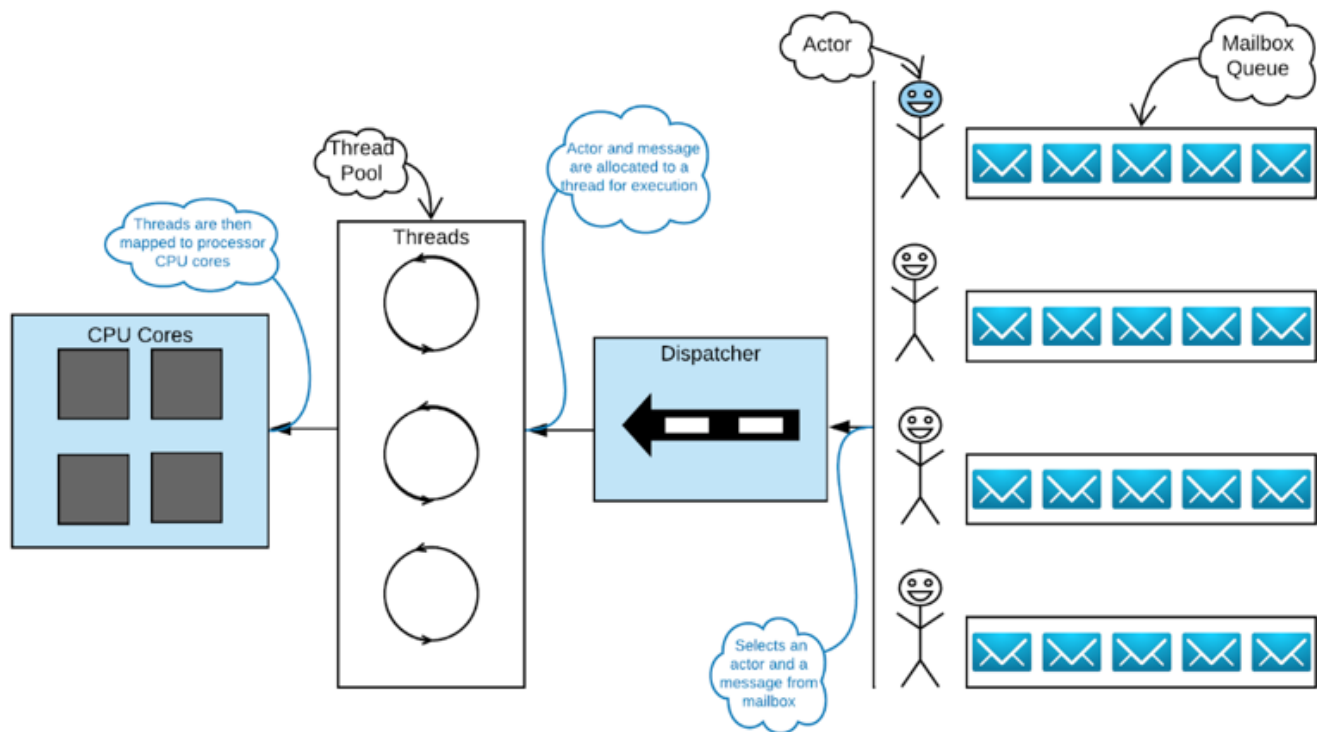


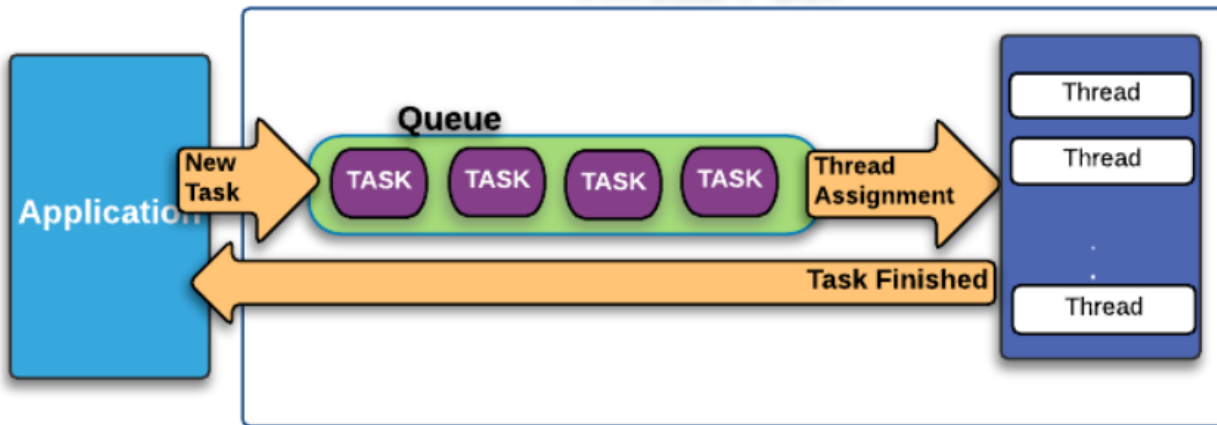
Dispatcher Vs Thread


$$\vdots, 0$$

, AKKA Dispatcher
/ .

() , Dispatcher () .

Thread Pool



,
.
.
Task .

, Task .
.(.)

,
.
• TypeA : DB Update 10
• TypeB: 1

DB ,

TypeA , TypeB .

,
.
• 7 / 1
• 3 / 10

, , .

.

, . .

.

() .

Akka Dispatcher .

,

```
#
custom-dispatcher {
    type = Dispatcher
    throughput = 100
}

# TPL
custom-task-dispatcher {
    type = TaskDispatcher
    throughput = 100
}

# fork-join
custom-fork-join-dispatcher {
    type = ForkJoinDispatcher
    throughput = 100
    dedicated-thread-pool {
        thread-count = 3
        deadlock-timeout = 3s
        threadtype = background
    }
}

AkkaLoad.RegisterActor(
    "printer",
    actorSystem.ActorOf(actorSystem.ActorOf(Props.Create<PrinterActor>()
        .WithDispatcher("custom-dispatcher")
        .WithRouter(FromConfig.Instance).WithDispatcher("custom-task-dispatcher"),
        // .WithRouter(new RoundRobinPool(5)),
        "printer-pool"
    ));
```

- throughput: N , N ,N .
- Dispatcher : .
- TaskDispatcher : [TPL](#)
- ForkJoinDispatcher : - [Fork And Join](#)

- DeadLock : Task Lock , Task
- LiveLock :
- Starvation : Task , Task
- Race Condition :

:[Terminology](#)

:

- <https://getakka.net/articles/actors/dispatchers.html>
- <https://getakka.net/articles/configuration/akka.html>
- <https://medium.com/akka-for-newbies/dispatchers-5c123e35acaf>
- : <https://github.com/psmon/AkkaForNetCore/commit/1e95db3e2286e013662ffedb713cc00a9eca8025>