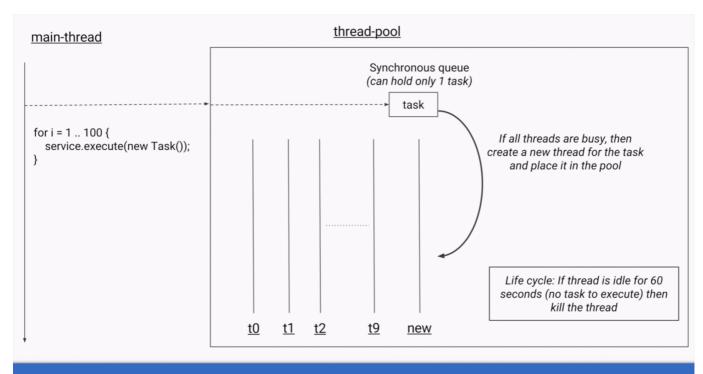


## **Constructor Parameters**

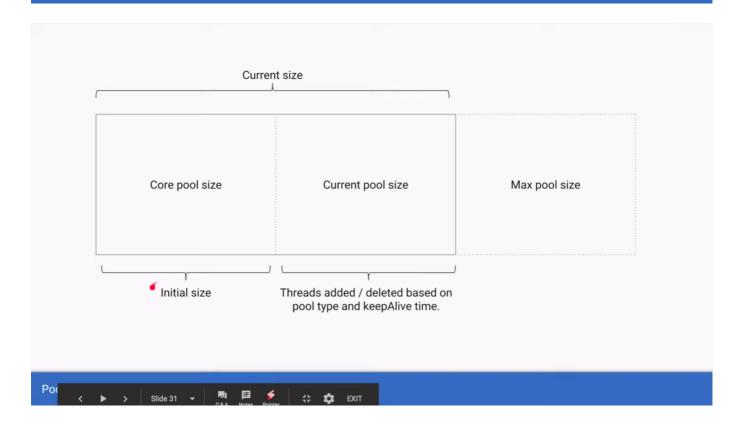
Parameter	Туре	Meaning	
corePoolSize	int	Minimum/Base size of the pool	
maxPoolSize	int	Maximum size of the pool	
keepAliveTime + unit	long	Time to keep an idle thread alive (after which it is killed)	
workQueue	BlockingQueue	Queue to store the tasks from which threads fetch them	
threadFactory	ThreadFactory	The factory to use to create new threads	
handler	RejectedExecutionHandler	Callback to use when tasks submitted are rejected	



Parameter	FixedThreadPool	CachedThreadPool	ScheduledThreadPool	SingleThreaded
corePoolSize	constructor-arg	0	constructor-arg	1
maxPoolSize	same as corePoolSize	Integer.MAX_VALUE	Integer.MAX_VALUE	1
keepAliveTime	0 seconds	60 seconds	60 seconds	0 seconds

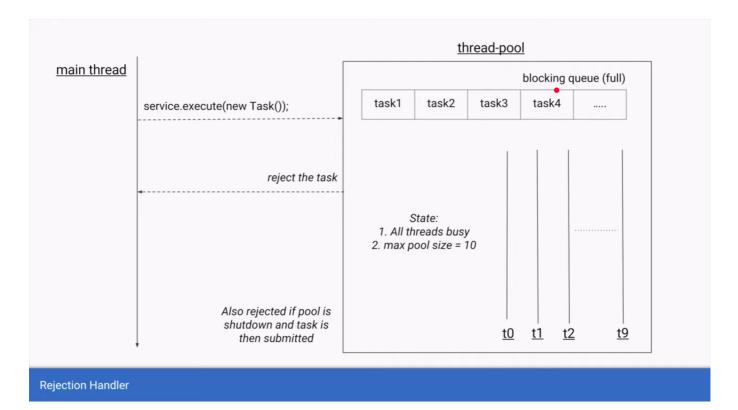
Note: Core pool threads are never killed unless allowCoreThreadTimeOut(boolean value) is set to true.

## **Pool Size Changes**



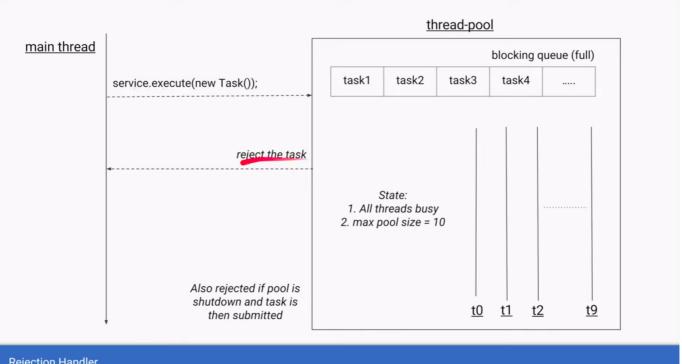
Pool	Queue Type	Why?	
FixedThreadPool	LinkedBlockingQueue	Threads are limited, thus unbounded queue to store all tasks.	
SingleThreadExecutor	LinkedBlockingQueue	Note: Since queue can never become full, new threads are never created.	
CachedThreadPool	SynchronousQueue	Threads are unbounded, thus no need to store the tasks. Synchronous queue is a queue with single slot	
ScheduledThreadPool	DelayedWorkQueue	Special queue that deals with schedules/time-delays	
Custom	ArrayBlockingQueue	Bounded queue to store the tasks. If queue gets full, new thread is created (as long as count is less than maxPoolSize).	

## Queue Types



Policy	What it means?
AbortPolicy	Submitting new tasks throws RejectedExecutionException (Runtime exception)
DiscardPolicy	Submitting new tasks silently discards it.
DiscardOldestPolicy	Submitting new tasks drops existing oldest task, and new task is added to the queue.
CallerRunsPolicy	Submitting new tasks will execute the task on the caller thread itself. This can create feedback loop where caller thread is busy executing the task and cannot submit new tasks at fast pace.

## Rejection Policies



Rejection Handler

