Thread 5

- Every pours has at least on thread of execution
 - The main thread starts at main() and continues until main() weturns
- A prouss may have multiple threads of executing
 - Each threed is like a wisi process
 - An existing theread can start new threads, which begin executing instructions at the same time as the original thread
- All the threads within a process share on adoress square
 - No new to create shard memory at the OS level
 - Shaw memoy can be allocated on the heap
- Each threed has its own stack
- Threads have the same problems with race couditions as processed

Uses for threads - Parallelism - If the thread literary and the OS supert it, threads will run on superh CPU cores simul taxe ously - Organization - Different throws can carry out different tasks in complex programs - Waiting for user input - Communicating over a network - Diz playing output Starting threads - Use the pthreads library on POSIX systems

pthrad_create() - create a thread
pthrad_exit() - terminate the thread
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