Problems to Real-time

	Real-time	Non-real-time
CPU work		
Context switches	(avoid)	
Memory access	(non-paged)	
System calls	X	
Allocations	X	
Deallocations	X	
Exceptions	X	
Priority Inversion		

Context Switching

- Saves the state of the currently executing thread
- Loads the state of a new thread to execute
 - Registers (including machine-state-flags)
 - Stack pointer
 - Program counter
 - Address space (when switching between processes)
- Might be required to move from user-mode to kernel-mode e.g. waiting for an IO resource
- Cache contention