

Thread-Local Storage

Godmar Back

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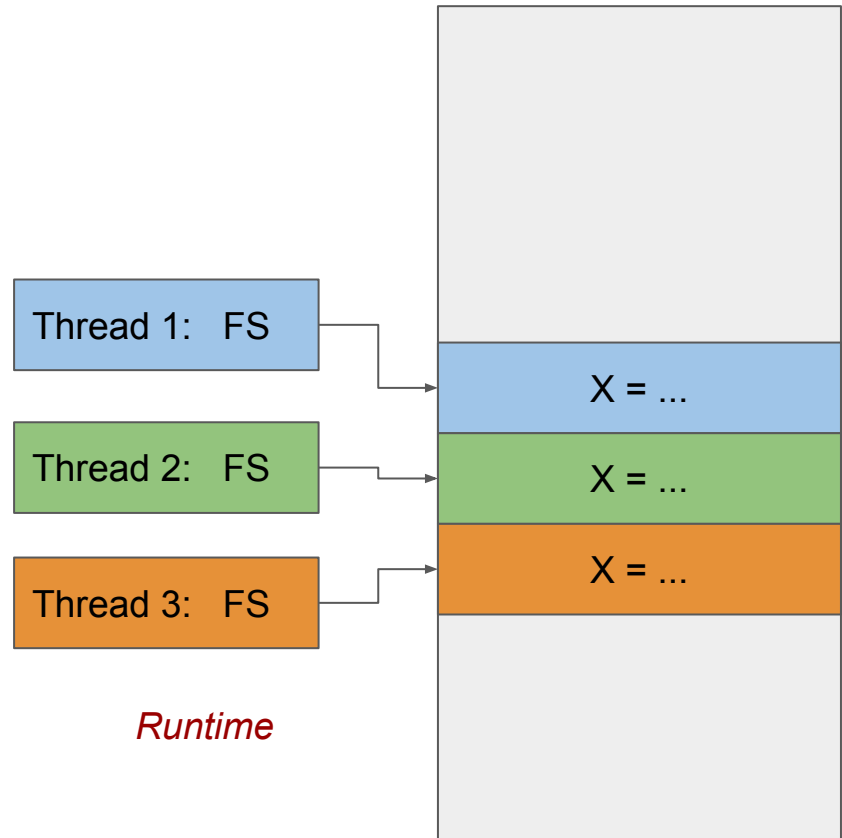
- Provides [per-thread](#) variables
- Efficient support provided by a combination of
Compiler + Linker + Runtime

```
_Thread_local int x; // C11  
__thread int x; // legacy gcc version  
  
x++;
```

Source Code

```
movl %fs:x@tpoff, %eax  
addl $1, %eax  
movl %eax, %fs:x@tpoff
```

Assembly Code



Runtime