```
1
     once per thread, move to therad, ICE API from get data, lambda copt
 2
 3
     // copy this object
 4
     auto l1 = [thisCopy=*this] { std::cout << thisCopy.name << '\n'; };//C++14
 5
     auto 11 = [*this] { std::cout << name << '\n'; };// C++17
 6
 7
     //lang/inlinethreadlocal.hpp
 8
     #include <string>
 9
     #include <iostream>
10
     struct MyData {
11
     inline static std::string gName = "global"; // unique in program
     inline static thread_local std::string tName = "tls"; // unique per thread
12
13
     std::string lName = "local"; // for each object
14
15
     void print(const std::string& msg) const {
16
     std::cout << msg << '\n';
     std::cout << "- gName: " << gName << '\n';
17
     std::cout << "- tName: " << tName << '\n';
18
19
     std::cout << "- lName: " << lName << '\n';
20
     }
21
22
     inline thread_local MyData myThreadData; // one object per thread
23
24
     //lang/inlinethreadlocal1.cpp
25
     #include "inlinethreadlocal.hpp"
26
     #include <thread>
     void foo();
27
28
     int main()
29
30
     myThreadData.print("main() begin:");
31
     myThreadData.gName = "thread1 name";
32
     myThreadData.tName = "thread1 name";
     myThreadData.lName = "thread1 name";
33
     myThreadData.print("main() later:");
34
35
     std::thread t(foo);
     t.join();
36
37
     myThreadData.print("main() end:");
38
     }
39
40
```