```
    auto  c4 = []{ return 2; };         // OK, captureless lambda expression
    using C4t = decltype(c4);

    class C4Derived : public C4t        // OK, inherit from closure type.
    {
        int d_auxValue;
    public:
        C4Derived(C4t c4, int aux) : C4t(std::move(c4)), d_auxValue(aux) { }
        int aux() const { return d_auxValue; }
    };

    static_assert(sizeof(C4Derived) == sizeof(int), "");  // OK, EBO applied

    int ret = callFunc([i]{ return 2 * i; });  // OK, deduced arg type, Func

    c1b = c1;  // Error, assignment of closures is not allowed.
}
```

The types of `c1` and `c2`, above, are different, even though they are token-for-token identical. As there is no way to explicitly name a closure type, we use **`auto`** in the case of `c1` and `c2` in `f1` (see Section 2.1."**`auto`** Variables" on page 195) or template-argument deduction in the case of `f` in `callFunc` to create variables directly from the lambda expression, and we use **`decltype`** (see Section 1.1."**`decltype`**" on page 25) to create aliases to the types of existing closure variables (`C1t` and `C2t`). Note that using **`decltype`** directly on a lambda expression is ill formed, as shown with `C3t`, because there would be no way to construct an object of the resulting unique type.[3] The derived class, `C4Derived`, uses the type alias `C4t` to refer to its base class. Note that its constructor forwards its first argument to the base-class move constructor.

There is no way to specify a closure type prior to creating an actual closure object of that type. Consequently, there is no way to declare `callFunc` with a parameter of the actual closure type that will be passed; hence, it is declared as a template parameter. As a special case, however, if the lambda capture is *empty* (i.e., the lambda expression begins with `[]`; see Section 2.2."Lambda Captures" on page 986), then the closure is implicitly convertible to an ordinary function pointer having the same signature as its call operator:

```
char callFuncPtr(char (*f)(const char*)) { return f("x"); }  // not a template

char c = callFuncPtr([](const char* s) { return s ? s[0] : '\0'; });
    // OK, closure argument is converted to function-pointer parameter.

char d = callFuncPtr([c](const char* s) { /*...*/ });
    // Error, lambda capture is not empty; no conversion to function pointer.
```

[3] Since C++20, lambda expressions are allowed to appear in unevaluated contexts, including operands of **`decltype`** and **`sizeof`**.