|  |  |  |
| --- | --- | --- |
|  | **lvalue** | **rvalue** |
| Foo Fun(){  Foo foo;  Return foo;  } | Foo foo = Fun();  //One ctor, with RVO | |
| Foo Fun(Foo foo){  //change foo  Return foo;  } | Foo foo = Fun(foo1);  //one copy in parameter  //one move in return | Foo foo = Fun(Foo{});  //one ctor in parameter with copy-elision  //one move in return. |
| Foo Fun(Foo& foo){  Foo foo1(foo);  //change foo1;  Return foo1;  } | Foo foo = Fun(foo1);  //one copy in foo1;  //copy elision in return | XXX |
| Foo Fun(const Foo& foo){  Foo foo1(foo);  //change foo1;  Return foo1;  } | Foo foo = Fun(foo1);  //one copy in foo1  //copy elision in return | Foo foo = Fun(Foo{});  //one copy in foo1  //copy elision in return |
| Foo Fun(Foo&& foo){  Return std::move(foo);  Return foo;  } | XXX | Foo foo = Fun(Foo{});  // with std::move, one move  // without move, one copy |

|  |  |  |  |
| --- | --- | --- | --- |
| Left value input | ctor | Copy | move |
| Ref parameter | 1 | 1 | 0 |
| Value parameter | 1 | 1 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| Right value input | ctor | Copy | move |
| Ref parameter | 1 | 1 | 0 |
| Value parameter | 1 | 0 | 1 |