Deduction Guides for packaged_task

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1 Introduction

std::function has deduction guides, but std::packaged_task, which is otherwise very similar to std::function, does not. We propose to add deduction guides for packaged_task that are compatible with the ones for function.

2 Impact on the Standard

Minimal. We propose to add deduction guides to packaged_task, which lacked them. This enables code that did not previously compile, but does not change the meaning of existing code.

3 Proposed Wording

```
In [futures.task.members], before the non-member swap function declaration, add:
```

```
template < class R, class... ArgTypes >
   packaged_task(R(*)(ArgTypes...)) -> packaged_task < R(ArgTypes...) >;
template < class F > packaged_task(F) -> packaged_task < see below >;
```

In [futures.task.members], after the packaged_task(F&&) constructor description, add:

```
template<class F> packaged_task(F&&) -> packaged_task<see below>;
```

Remarks: This deduction guide participates in overload resolution only if &F::operator() is well-formed when treated as an unevaluated operand. In that case, if decltype(&F::operator()) is of the form R(G::*)(A...) cv & noexcept_{opt} for a class type G, then the deduced type is packaged_task<R(A...)>.