
Subject: MSVS15x64: Compile Error C3256 C3259 C3250 in Fn.h findarg

Posted by [wqcmaster](#) on Fri, 28 May 2021 10:34:25 GMT

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Hi,

is there an error here?

No error is thrown under the CLANG compiler; if the MSVS15x64 compiler is used, several errors are thrown.

Upp Version: 15947

Package Core

File "Fn.h"

```
template <class T, class K, typename... L>
constexpr int findarg(const T& sel, const K& k, const L& ...args)
{
    if(sel == k)
        return 0;
    int q = findarg(sel, args...);
    return q >= 0 ? q + 1 : -1;
}
```

threw the following error:

...Fn.h (58): error C3256: "q": Variablenverwendung ergibt keinen konstanten Ausdruck

...Fn.h (53): error C3259: "constexpr"-Funktionen können nur eine return-Anweisung aufweisen.

...Fn.h (57): error C3250: "q": Deklaration ist im "constexpr"-Funktionstext nicht zulässig

But if the function is changed as follows:

```
template <class T, class K, typename... L>
constexpr int findarg(const T& sel, const K& k, const L& ...args)
{
    return (sel == k) ? 0 : findarg(sel, args...) >= 0 ? findarg(sel, args...) + 1 : -1;
}
```

-> no error is displayed when compiling.

Subject: Re: MSVS15x64: Compile Error C3256 C3259 C3250 in Fn.h findarg

Posted by [Novo](#) on Mon, 31 May 2021 18:06:12 GMT

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In your fix you are using C++11. It supports very limited syntax with constexpr, basically, only what fits into a return statement.

Current code in U++ is using C++14, which allows to use almost all C++ statements with constexpr.

Subject: Re: MSVS15x64: Compile Error C3256 C3259 C3250 in Fn.h findarg
Posted by [Novo](#) on Mon, 31 May 2021 18:08:00 GMT

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Basically, U++ requires C++14.

Subject: Re: MSVS15x64: Compile Error C3256 C3259 C3250 in Fn.h findarg
Posted by [Novo](#) on Mon, 31 May 2021 18:12:34 GMT

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There was a good presentation about constexpr on CppCon 2015, I believe ...

Subject: Re: MSVS15x64: Compile Error C3256 C3259 C3250 in Fn.h findarg
Posted by [wqcmaster](#) on Tue, 01 Jun 2021 08:08:55 GMT

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Thanks for the information,

Most of the time I use the CLANG compiler myself. I will update the MS Compiler soon, thanks to your information.

Subject: Re: MSVS15x64: Compile Error C3256 C3259 C3250 in Fn.h findarg
Posted by [Novo](#) on Tue, 01 Jun 2021 13:54:08 GMT

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An /std (Specify Language Standard Version) can be handy as well.

Subject: Re: MSVS15x64: Compile Error C3256 C3259 C3250 in Fn.h findarg
Posted by [Novo](#) on Fri, 04 Jun 2021 04:07:01 GMT

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Just in case: CppCon 2015: Scott Schurr "constexpr: Introduction"
