

Hi,

It seems to me that MemFn() (and therefore THISFN()) do not work correctly with return types. For some reason MemFn() uses Event instead of Function and therefore only offers void return types.

Switching to using Function instead of Event fixes this behavior, but I'm not sure if it is correct fix or causes trouble elsewhere...:

```
template <class Ptr, class Class, class Res, class... ArgTypes>
Function<Res (ArgTypes...)> MemFn(Ptr object, Res (Class::*method)(ArgTypes...))
{
    return [=](ArgTypes... args) { return (object->*method)(args...); };
}
```

Update: The code for MemFn() can be found in Core/Function.h ...

Update 2: Testcase:
#include <Core/Core.h>

using namespace Upp;

// Temporary fix:

```
template <class Ptr, class Class, class Res, class... ArgTypes>
Function<Res (ArgTypes...)> MemFn2(Ptr object, Res (Class::*method)(ArgTypes...))
{
    return [=](ArgTypes... args) { return (object->*method)(args...); };
}
```

```
#define THISFN2(x) MemFn2(this, &CLASSNAME::x)
```

// Testcase for MemFn

```
class MemFnTest{
    typedef MemFnTest CLASSNAME;

    String fn1(double a, double b, String &c){
        String s=Format("%f %f %s\r\n",a,b,~c);
        return s;
    }
}
```

```
public:
    Function<String (double,double,String&)> fn;
```

```
MemFnTest(){
    fn=THISFN2(fn1);
    fn=THISFN(fn1);
}
};
```

```
CONSOLE_APP_MAIN{
    MemFnTest x;
    String s = x.fn(1,2,String("Hi there!"));
    printf(s);
}
```

Best regards,

Tom

Subject: Re: MemFn() only offers void return types
Posted by [mirek](#) on Mon, 11 Jun 2018 13:53:08 GMT
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Tom1 wrote on Tue, 29 May 2018 11:32Hi,

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};

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Best regards,

Tom

You are absolutely right. Applied. Thank you.

Mirek
