
Subject: IdeCalc -- ERROR: void.sin(): (0,15): 'sin' is not a lambda

Posted by [deep](#) on Thu, 05 Jan 2017 13:16:43 GMT

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Hi,

Trying to use IDE Calculator function.

When I use IDE Calculator in IDE. (Ctrl+e) I get following result.

```
$A=100
100 0x64 "d"
$B=32.5
32.5
$A+B*(32-56/2)
230 0xe6 "æ"
$C=A+B*sin(3.0)
104.5864
```

But when I use same code from uppsrc/ide/Calc.cpp in my program I get following result.
It gives ERROR: void.sin(): (0,15): 'sin' is not a lambda for sin() function.

```
A=100 -- Result -- 100
B=32.5 -- Result -- 32.5
A+B*(32-56/2) -- Result -- 230
C=A+B*sin(3.0) -- Result -- ERROR: void.sin(): (0,15): 'sin' is not a lambda
```

Code used, ESC Package to be added to Package

What changes in code required to process trigonometric functions correctly. Is working code

This is code taken from uppsrc/ide/Calc.cpp

```
#include <Core/Core.h>
```

```
#include <Esc/Esc.h>
```

```
using namespace Upp;
```

```
ArrayMap<String, EscValue> vars;
```

```
ArrayMap<String, EscValue>& UscGlobal()
{
    static ArrayMap<String, EscValue> global;
    return global;
}
```

```
void Calc(String exp)
{
    String txt;
    try {
```

```

ArrayMap<String, EscValue>& g = UscGlobal();
for(int i = 0; i < g.GetCount(); i++)
    vars.GetAdd(g.GetKey(i)) = g[i];
if(IsNull(exp))
    return;
EscValue v = Evaluatex(exp, vars);
txt = v.ToString();
vars.GetAdd("_") = v;
}
catch(CParser::Error e) {
    const char *x = strchr(e, ':');
    txt << "ERROR: " << (x ? x + 1 : ~e);
}
LOG(exp << " -- Result -- " << txt);
}

```

CONSOLE_APP_MAIN

```

{
    StdLib(UscGlobal());
    String s = "A=100";
    Calc(s);
    s = "B=32.5";
    Calc(s);
    s = "A+B*(32-56/2)";
    Calc(s);
    s = "C=A+B*sin(3.0)",
    Calc( s );
}

```

WIN10 - visual studio 14.0 - 64 bit.
 IDE is compiled from source. Ver 10553

Subject: Re: IdeCalc -- ERROR: void.sin(): (0,15): 'sin' is not a lambda
 Posted by [deep](#) on Thu, 05 Jan 2017 14:15:11 GMT
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Hi,

Answer to my question.

To use standard functions UscGlobal needs init.

It is done like this at the beginning of the code.

```
StdLib(UscGlobal());
```

It will init ArrayMap with all StdLib Functions

is_number
is_array
is_map
is_void
int
to_string
to_number
count
keys
values
rand
reverse
sort
order
replace
ToUpper
ToLower
len
mid
exists
OpenFileOut
OpenFileAppend
OpenFileIn
GetSysTime
IsDate
IsTime
sin
cos
tan
asin
acos
atan
sinh
cosh
tanh
asinh
acosh
atanh
exp
log
log10
exp2
log2
sqrt
cbrt

pow
atan2
