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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

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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

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