Subject: A little experiment with smarter debugging Posted by copporter on Fri, 13 Nov 2009 08:47:27 GMT

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I find that String0::Dsyn is quite an ugly hack and it makes understanding string a lot harder, especially because of the macro juggling with _DEBUG and COMPILER_GCC in String and String0. I think this should be addressed by the debugger without bloating up String in debug mode, so I did a little experiment. I removed the "len" fields, and added this to ide/Debuggers/Visulize.cpp:

```
if (t.name == "Upp::String") {
 if(cm)
 result.Cat(", ");
 result.Cat("len");
 result.Cat("=", SColorMark);
 union {
 char temp[16];
 dword w[4];
 };
 if(!Copy(val.address, &temp, sizeof(temp)))
 result.Cat("\"Error\"", Green);
 int len = 0:
 if (temp[14] == 0)
 len = temp[15];
 else
 len = w[2];
 result.Cat(IntFormat(len), Cyan);
}
```

This works well and can be adapted for "s" field. What is you opinion on making the debugger "understand" String? As far as I can tell there are just a few tricky classes like String, so the effort wouldn't be that great. The disadvantage is that outside TheIDE, people would have a harder time debugging strings, so maybe we could keep Dsyn, but only use it if Core is compiled with an option for that.