
Subject: Re: the debugger

Posted by [cocob](#) on Sat, 18 Oct 2008 10:40:45 GMT

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Here a little code to solve my problem of printing values in STL vectors. I think it would be great to improve this to print values for other types.

```
String Gdb::GetVarType(const String& var)
```

```
{  
    String type = FastCmd("ptype " + var);  
    StringStream ss(type);  
    String ln = ss.GetLine();  
    const char *s = strchr(ln, '=');  
    if(s) {  
        s++;  
        while(*s == ' ')  
            s++;  
        return String(s);  
    }  
    else  
        return "";  
}
```

```
String Gdb::TransformExp(const String& exp)
```

```
{  
    String newExp;  
    int b = exp.Find('[');  
    if(b>0) {  
        int e = exp.Find(']', b+1);  
        if(b>0) {  
            // we have a [*] expression so evaluate the index  
            String index = exp.Mid(b+1, e-b-1);  
            index = Print(index);  
            String tab = exp.Mid(0, b);  
            String tabType = GetVarType(tab);  
            if(tabType.GetLength() == 0) return exp;  
            if(tabType.Left(17) == "class std::vector") {  
                newExp << "(" << tab << "._M_impl._M_start" << index << ")";  
                return newExp;  
            } else {  
                newExp << tab << "[" << index << "]";  
                return newExp;  
            }  
        }  
    }  
}  
  
return exp;
```

```
}

String Gdb::Print(const String& exp)
{
    String newExp = TransformExp(exp);
    String q = FastCmd("print " + newExp);
    StringStream ss(q);
    String ln = ss.GetLine();
    const char *s = strchr(ln, '=');
    if(s) {
        s++;
        while(*s == ' ')
            s++;
        return DataClean(s);
    }
    else
        return DataClean(ln);
}
```
