
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);
}
```
