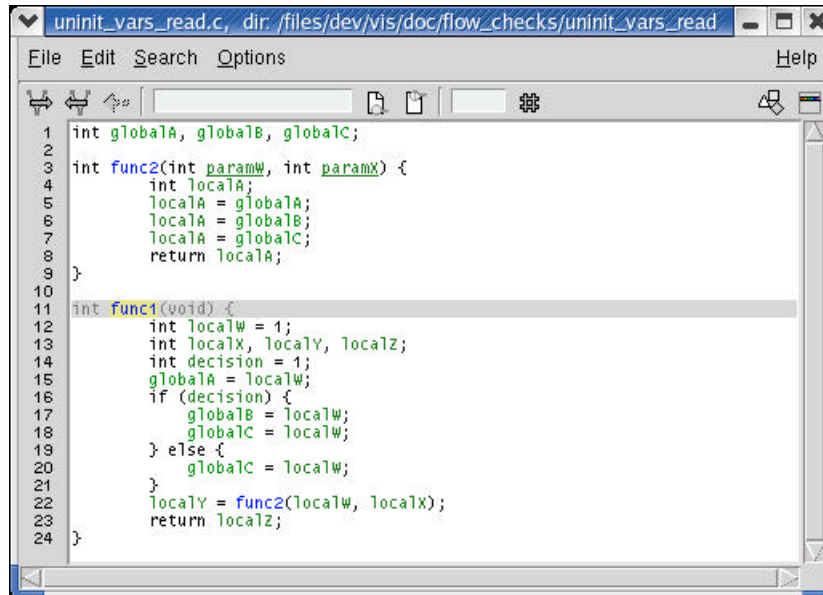


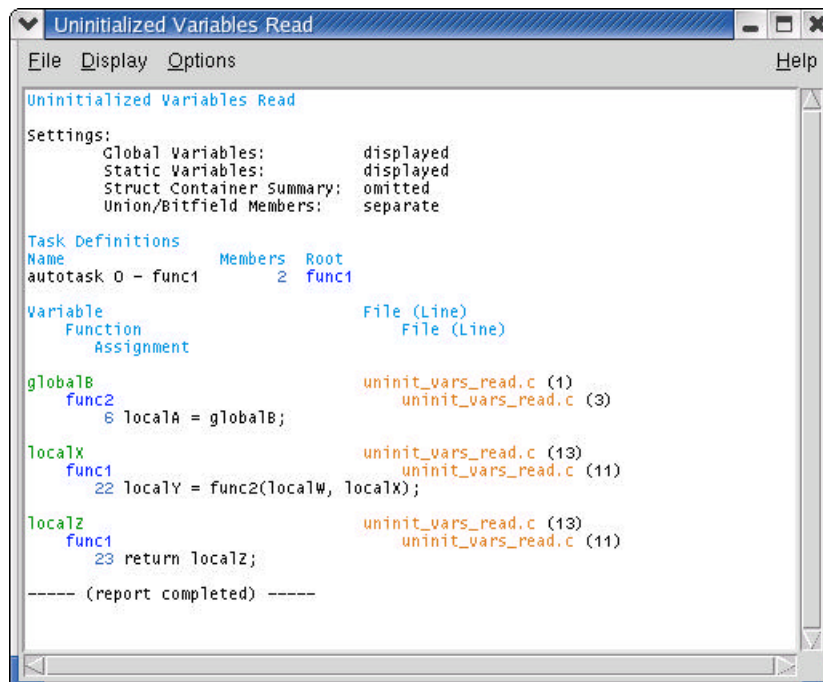
## Uninitialized Variables Read

The Uninitialized Variables Read report shows global, static and local variables that are read before they are ever initialized or set. The existence of this condition may be result from a simple failure to initialize the variables, or might indicate that some logic is faulty or missing. Consider the following:



```
1 int globalA, globalB, globalC;
2
3 int func2(int paramW, int paramX) {
4     int localA;
5     localA = globalA;
6     localA = globalB;
7     localA = globalC;
8     return localA;
9 }
10
11 int func1(void) {
12     int localW = 1;
13     int localX, localY, localZ;
14     int decision = 1;
15     globalA = localW;
16     if (decision) {
17         globalB = localW;
18         globalC = localW;
19     } else {
20         globalC = localW;
21     }
22     localY = func2(localW, localX);
23     return localZ;
24 }
```

In the resulting report, localX and localZ are listed, as they are both read within func1 without having been initialized. The variable globalB is also reported, because its initialization is dependent on an if condition, while globalC is initialized regardless of whether or not the if condition is met.



```
Uninitialized Variables Read
Settings:
Global Variables:      displayed
Static Variables:     displayed
Struct Container Summary:  omitted
Union/Bitfield Members: separate

Task Definitions
Name      Members  Root
autotask 0 - func1      2      func1

Variable      Function      Assignment      File (Line)
-----
globalB
  func2
    6 localA = globalB;      uninit_vars_read.c (1)
                                uninit_vars_read.c (3)
localX
  func1
    22 localY = func2(localW, localX);      uninit_vars_read.c (13)
                                uninit_vars_read.c (11)
localZ
  func1
    23 return localZ;      uninit_vars_read.c (13)
                                uninit_vars_read.c (11)

----- (report completed) -----
```