

```
1: // $Id: undefvar.c,v 1.8 2013-04-23 18:38:50-07 - - $
2:
3: //
4: // Illustrate the use of uninitialized variables.
5: // See output from valgrind.
6: //
7:
8: #include <stdio.h>
9:
10: int main (int argc, char **argv) {
11:     printf ("argc=%d, argv=%p, *argv=%p(%s)\n",
12:            argc, argv, *argv, *argv);
13:     int var;
14:     int it;
15:     int *p;
16:     if (var > 0) it = 3;
17:     printf ("var=%d, it=%d, p=%p\n", var, it, p);
18:     *p = 8;
19: }
20:
21: //TEST// valgrind --track-origins=yes undefvar >undefvar.out 2>&1
22: //TEST// echo EXIT STATUS = $? >>undefvar.out
23: //TEST// mkpspdf undefvar.ps undefvar.c* undefvar.out*
24:
```

[illegible]

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1: ==27344== Memcheck, a memory error detector
2: ==27344== Copyright (C) 2002-2012, and GNU GPL'd, by Julian Seward et al
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3: ==27344== Using Valgrind-3.8.1 and LibVEX; rerun with -h for copyright i
nfo
4: ==27344== Command: undefvar
5: ==27344==
6: ==27344== Conditional jump or move depends on uninitialised value(s)
7: ==27344==    at 0x40055C: main (undefvar.c:16)
8: ==27344==    Uninitialised value was created by a stack allocation
9: ==27344==    at 0x400520: main (undefvar.c:10)
10: ==27344==
11: ==27344== Use of uninitialised value of size 8
12: ==27344==    at 0x3753643D5B: _itoa_word (in /lib64/libc-2.12.so)
13: ==27344==    by 0x3753646912: vfprintf (in /lib64/libc-2.12.so)
14: ==27344==    by 0x375364F449: printf (in /lib64/libc-2.12.so)
15: ==27344==    by 0x40057F: main (undefvar.c:17)
16: ==27344==    Uninitialised value was created by a stack allocation
17: ==27344==    at 0x400520: main (undefvar.c:10)
18: ==27344==
19: ==27344== Conditional jump or move depends on uninitialised value(s)
20: ==27344==    at 0x3753643D65: _itoa_word (in /lib64/libc-2.12.so)
21: ==27344==    by 0x3753646912: vfprintf (in /lib64/libc-2.12.so)
22: ==27344==    by 0x375364F449: printf (in /lib64/libc-2.12.so)
23: ==27344==    by 0x40057F: main (undefvar.c:17)
24: ==27344==    Uninitialised value was created by a stack allocation
25: ==27344==    at 0x400520: main (undefvar.c:10)
26: ==27344==
27: ==27344== Conditional jump or move depends on uninitialised value(s)
28: ==27344==    at 0x37536453A3: vfprintf (in /lib64/libc-2.12.so)
29: ==27344==    by 0x375364F449: printf (in /lib64/libc-2.12.so)
30: ==27344==    by 0x40057F: main (undefvar.c:17)
31: ==27344==    Uninitialised value was created by a stack allocation
32: ==27344==    at 0x400520: main (undefvar.c:10)
33: ==27344==
34: ==27344== Conditional jump or move depends on uninitialised value(s)
35: ==27344==    at 0x37536453C1: vfprintf (in /lib64/libc-2.12.so)
36: ==27344==    by 0x375364F449: printf (in /lib64/libc-2.12.so)
37: ==27344==    by 0x40057F: main (undefvar.c:17)
38: ==27344==    Uninitialised value was created by a stack allocation
39: ==27344==    at 0x400520: main (undefvar.c:10)
40: ==27344==
41: ==27344== Conditional jump or move depends on uninitialised value(s)
42: ==27344==    at 0x3753645948: vfprintf (in /lib64/libc-2.12.so)
43: ==27344==    by 0x375364F449: printf (in /lib64/libc-2.12.so)
44: ==27344==    by 0x40057F: main (undefvar.c:17)
45: ==27344==    Uninitialised value was created by a stack allocation
46: ==27344==    at 0x400520: main (undefvar.c:10)
47: ==27344==
48: ==27344== Use of uninitialised value of size 8
49: ==27344==    at 0x3753643D01: _itoa_word (in /lib64/libc-2.12.so)
50: ==27344==    by 0x3753646912: vfprintf (in /lib64/libc-2.12.so)
51: ==27344==    by 0x375364F449: printf (in /lib64/libc-2.12.so)
52: ==27344==    by 0x40057F: main (undefvar.c:17)
53: ==27344==    Uninitialised value was created by a stack allocation
54: ==27344==    at 0x400520: main (undefvar.c:10)
55: ==27344==
56: ==27344== Conditional jump or move depends on uninitialised value(s)
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57: ==27344==      at 0x3753643D08: _itoa_word (in /lib64/libc-2.12.so)
58: ==27344==      by 0x3753646912: vfprintf (in /lib64/libc-2.12.so)
59: ==27344==      by 0x375364F449: printf (in /lib64/libc-2.12.so)
60: ==27344==      by 0x40057F: main (undefvar.c:17)
61: ==27344== Uninitialised value was created by a stack allocation
62: ==27344==      at 0x400520: main (undefvar.c:10)
63: ==27344==
64: ==27344== Conditional jump or move depends on uninitialised value(s)
65: ==27344==      at 0x375364697D: vfprintf (in /lib64/libc-2.12.so)
66: ==27344==      by 0x375364F449: printf (in /lib64/libc-2.12.so)
67: ==27344==      by 0x40057F: main (undefvar.c:17)
68: ==27344== Uninitialised value was created by a stack allocation
69: ==27344==      at 0x400520: main (undefvar.c:10)
70: ==27344==
71: ==27344== Conditional jump or move depends on uninitialised value(s)
72: ==27344==      at 0x3753645385: vfprintf (in /lib64/libc-2.12.so)
73: ==27344==      by 0x375364F449: printf (in /lib64/libc-2.12.so)
74: ==27344==      by 0x40057F: main (undefvar.c:17)
75: ==27344== Uninitialised value was created by a stack allocation
76: ==27344==      at 0x400520: main (undefvar.c:10)
77: ==27344==
78: ==27344== Conditional jump or move depends on uninitialised value(s)
79: ==27344==      at 0x37536453FD: vfprintf (in /lib64/libc-2.12.so)
80: ==27344==      by 0x375364F449: printf (in /lib64/libc-2.12.so)
81: ==27344==      by 0x40057F: main (undefvar.c:17)
82: ==27344== Uninitialised value was created by a stack allocation
83: ==27344==      at 0x400520: main (undefvar.c:10)
84: ==27344==
85: ==27344== Use of uninitialised value of size 8
86: ==27344==      at 0x400584: main (undefvar.c:18)
87: ==27344== Uninitialised value was created by a stack allocation
88: ==27344==      at 0x400520: main (undefvar.c:10)
89: ==27344==
90: argc=1, argv=0x7fefffc48, *argv=0x7ff000013(undefvar)
91: var=0, it=0, p=0x7fefffc40
92: ==27344==
93: ==27344== HEAP SUMMARY:
94: ==27344==      in use at exit: 0 bytes in 0 blocks
95: ==27344==    total heap usage: 0 allocs, 0 frees, 0 bytes allocated
96: ==27344==
97: ==27344== All heap blocks were freed -- no leaks are possible
98: ==27344==
99: ==27344== For counts of detected and suppressed errors, rerun with: -v
100: ==27344== ERROR SUMMARY: 32 errors from 12 contexts (suppressed: 6 from
6)
101: EXIT STATUS = 0
```