

```
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: ==10688== Memcheck, a memory error detector
2: ==10688== Copyright (C) 2002-2013, and GNU GPL'd, by Julian Seward et al
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3: ==10688== Using Valgrind-3.10.1 and LibVEX; rerun with -h for copyright
info
4: ==10688== Command: undefvar
5: ==10688==
6: ==10688== Conditional jump or move depends on uninitialised value(s)
7: ==10688==   at 0x400822: main (undefvar.c:16)
8: ==10688==   Uninitialised value was created by a stack allocation
9: ==10688==   at 0x4007E6: main (undefvar.c:10)
10: ==10688==
11: ==10688== Conditional jump or move depends on uninitialised value(s)
12: ==10688==   at 0x5E26E12: vfprintf (in /usr/lib64/libc-2.17.so)
13: ==10688==   by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
14: ==10688==   by 0x400845: main (undefvar.c:17)
15: ==10688==   Uninitialised value was created by a stack allocation
16: ==10688==   at 0x4007E6: main (undefvar.c:10)
17: ==10688==
18: ==10688== Use of uninitialised value of size 8
19: ==10688==   at 0x5E262AB: _itoa_word (in /usr/lib64/libc-2.17.so)
20: ==10688==   by 0x5E27325: vfprintf (in /usr/lib64/libc-2.17.so)
21: ==10688==   by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
22: ==10688==   by 0x400845: main (undefvar.c:17)
23: ==10688==   Uninitialised value was created by a stack allocation
24: ==10688==   at 0x4007E6: main (undefvar.c:10)
25: ==10688==
26: ==10688== Conditional jump or move depends on uninitialised value(s)
27: ==10688==   at 0x5E262B5: _itoa_word (in /usr/lib64/libc-2.17.so)
28: ==10688==   by 0x5E27325: vfprintf (in /usr/lib64/libc-2.17.so)
29: ==10688==   by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
30: ==10688==   by 0x400845: main (undefvar.c:17)
31: ==10688==   Uninitialised value was created by a stack allocation
32: ==10688==   at 0x4007E6: main (undefvar.c:10)
33: ==10688==
34: ==10688== Conditional jump or move depends on uninitialised value(s)
35: ==10688==   at 0x5E27374: vfprintf (in /usr/lib64/libc-2.17.so)
36: ==10688==   by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
37: ==10688==   by 0x400845: main (undefvar.c:17)
38: ==10688==   Uninitialised value was created by a stack allocation
39: ==10688==   at 0x4007E6: main (undefvar.c:10)
40: ==10688==
41: ==10688== Conditional jump or move depends on uninitialised value(s)
42: ==10688==   at 0x5E26EDD: vfprintf (in /usr/lib64/libc-2.17.so)
43: ==10688==   by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
44: ==10688==   by 0x400845: main (undefvar.c:17)
45: ==10688==   Uninitialised value was created by a stack allocation
46: ==10688==   at 0x4007E6: main (undefvar.c:10)
47: ==10688==
48: ==10688== Conditional jump or move depends on uninitialised value(s)
49: ==10688==   at 0x5E26F60: vfprintf (in /usr/lib64/libc-2.17.so)
50: ==10688==   by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
51: ==10688==   by 0x400845: main (undefvar.c:17)
52: ==10688==   Uninitialised value was created by a stack allocation
53: ==10688==   at 0x4007E6: main (undefvar.c:10)
54: ==10688==
55: ==10688== Conditional jump or move depends on uninitialised value(s)
56: ==10688==   at 0x5E29726: vfprintf (in /usr/lib64/libc-2.17.so)
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57: ==10688==    by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
58: ==10688==    by 0x400845: main (undefvar.c:17)
59: ==10688== Uninitialised value was created by a stack allocation
60: ==10688==    at 0x4007E6: main (undefvar.c:10)
61: ==10688==
62: ==10688== Use of uninitialised value of size 8
63: ==10688==    at 0x5E26251: _itoa_word (in /usr/lib64/libc-2.17.so)
64: ==10688==    by 0x5E27325: vfprintf (in /usr/lib64/libc-2.17.so)
65: ==10688==    by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
66: ==10688==    by 0x400845: main (undefvar.c:17)
67: ==10688== Uninitialised value was created by a stack allocation
68: ==10688==    at 0x4007E6: main (undefvar.c:10)
69: ==10688==
70: ==10688== Conditional jump or move depends on uninitialised value(s)
71: ==10688==    at 0x5E26258: _itoa_word (in /usr/lib64/libc-2.17.so)
72: ==10688==    by 0x5E27325: vfprintf (in /usr/lib64/libc-2.17.so)
73: ==10688==    by 0x5E30C98: printf (in /usr/lib64/libc-2.17.so)
74: ==10688==    by 0x400845: main (undefvar.c:17)
75: ==10688== Uninitialised value was created by a stack allocation
76: ==10688==    at 0x4007E6: main (undefvar.c:10)
77: ==10688==
78: ==10688== Use of uninitialised value of size 8
79: ==10688==    at 0x40084A: main (undefvar.c:18)
80: ==10688== Uninitialised value was created by a stack allocation
81: ==10688==    at 0x4007E6: main (undefvar.c:10)
82: ==10688==
83: argc=1, argv=0xffefff618, *argv=0xffefffa4f(undefvar)
84: var=0, it=0, p=0xffefff610
85: ==10688==
86: ==10688== HEAP SUMMARY:
87: ==10688==    in use at exit: 0 bytes in 0 blocks
88: ==10688== total heap usage: 1 allocs, 1 frees, 16 bytes allocated
89: ==10688==
90: ==10688== All heap blocks were freed -- no leaks are possible
91: ==10688==
92: ==10688== For counts of detected and suppressed errors, rerun with: -v
93: ==10688== ERROR SUMMARY: 36 errors from 11 contexts (suppressed: 1 from
1)
94: EXIT STATUS = 0
```