## Toybox Bug Analysis

## June 15, 2018

File	lsm.h
Line	63
Description	Uninitialized variable: result
Number of Configurations	4321
1.dimed of complanations	
Code Sample	
<pre>static inline char *lsm_context(void)</pre>	
{	
int ok = 0;	
<pre>char *result;</pre>	
<pre>if (CFG_TOYBOX_SMACK) ok = smack_new_label_from_self(&amp;result) &gt; 0;</pre>	
<pre>else ok = getcon(&amp;result) == 0;</pre>	
<pre>return ok ? result : strdup("?");</pre>	
}	
Status	False positive.
Remarks	In configurations including TOYBOX_SMACK and
	TOYBOX SELINUX
	smack_new_label_from_self and getcon
	are replaced with the value -1, respectively. In
	- · · · - · · · · · · · · · · · · · · ·
	other configurations, *result is an out
	parameter.

 $<sup>^1\</sup>mathrm{The}$  actual cpp check bug reports listed various C source code files which included this header as the source of the bug, even though  $1\,\mathrm{sm}$ .h was the actual source. This is the number of total occurrences of the bug across multiple files.

 $\begin{array}{cc} {\rm File} & {\rm base} 64.c \\ {\rm Line} & 35 \end{array}$ 

Description Expression `this.base64.columns&&++\*x

== this.base64.columns'

depends on order of evaluation of side effects.

Number of Configurations 478

## Code Sample

```
static void wraputchar(int c, int *x)
{
  putchar(c);
  TT.total++;
  if (TT.columns && ++*x == TT.columns) {
    *x = 0;
    xputc('\n');
  };
}
```

Status False positive.

Remarks Although TT.columns appears twice in the same expression, it is modified neither time.

Thus, the order of evaluation of side effects does

not matter.