

## Re: [Lit.] Buffer overruns

**Source:** <http://www.derkeiler.com/Newsgroups/sci.crypt/2004-12/1268.html>

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**From:** Xcott Craver ([caj\\_at\\_B-r-a-i-n-H-z.com](mailto:caj_at_B-r-a-i-n-H-z.com))

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Mok-Kong Shen <[mok-kong.shen@t-online.de](mailto:mok-kong.shen@t-online.de)> wrote:

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>*Xcott Craver wrote:*

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>> *I believe there is an attempt at type-safe C called Popcorn.*

>[snip]

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>*I should appreciate it, if any reader happens to have a literature*

>*reference to post.*

Try, <http://www.cs.cornell.edu/talc/papers.html>, 3rd paper down to start.

> *I suppose, though, that the type-safe version would severely restrict*  
> *the commonly seen style of programming in C, especially in respect of*  
> *the use of pointers.*

IIRC, pointers are still allowed, but not pointer arithmetic, or pointer casting. Popcorn also has some of the good elements from ML, such as tuples, e.g. `*(int, char[20]) foo = new (305, "John Smith")` and parametric datatypes.

Also: the Cyclone project, another type-safe version of C, is at <http://www.research.att.com/projects/cyclone/>

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