Proposal for C23
WG14 n2665

Title:	Zero-size reallocations are no longer an obsolescent feature
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Date:	2021-2-14
Proposal category:	Defect
Target audience:	C programmers using the realloc functions
Abstract:	Now that zero-size reallocations are undefined behavior, it no longer needs to be described as an obsolescent feature in Section 7.31.14

Prior art: C

Zero-size reallocations are no longer an obsolescent feature

Summary of Changes

n2665

- Remove paragraph 2 from section 7.31.24

Introduction and Rationale

n2464 made invoking realloc with a size argument equal to zero undefined behavior. Consequently, it is no longer an obsolescent feature.

Proposed Wording

The wording proposed is a diff from the committee working draft N2596 from December 11, 2020. Green text is new text, while ~~red~~ text is deleted text.

Change 7.31.14 as follows:

7.31.14 General utilities <stdlib.h>

1 Function names that begin with str or wcs and a lowercase letter are potentially reserved identifiers and may be added to the declarations in the <stdlib.h> header.

~~2 Invoking realloc with a size argument equal to zero is an obsolescent feature.~~

Acknowledgements

I would like to recognize Aaron Ballman for his help with this work.

References

n2464 Zero-size Reallocations are Undefined Behavior
http://www.open-std.org/jtc1/sc22/wg14/www/docs/n2464.pdf