

Release Notes for XXICC revision 0.0b

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This document describes enhancements and bug fixes for XXICC revision 0.0b, released in late August 2011. 0.0b is a minor release fixing some XOE bugs and adding some minor features. There is no change to the `xxicc` executables and most documentation is not affected.

1. GalaxC Language

- We have a new type conversion operator `int(x)` which converts `x` to `int`. Since `int` is equivalent to `long`, `int(x)` is equivalent to `long(x)`.
- We have also new type conversion operators `signed x` and `unsigned x` which convert `x` to a signed or unsigned integer of the same size. Note that parentheses are not required. If `x` is a complex expression, you may put it in parentheses but you must put in a space, e.g., `signed (x + y)` rather than `signed(x + y)`.
- We have removed the `MULU` (unsigned multiply) PSI operator since it is equivalent to signed `MUL`: if you multiply two 32-bit integers and only keep the low 32 bits of the product, the result is the same for both unsigned and 2's complement integers.
- The pointer operators `p+n` and `p-n` now allow `n` to be `ulong`. Similarly, array access `A[i]` now allows `i` to be `ulong`.

2. Bug Fixes

- Issue #1 "In XOE, indentation may sometimes affect rest of file" may be fixed. We found another way to reproduce the bug and fixed that manifestation. However, there may be other bugs that produce similar effects so we're keeping the issue open for now.
- Issue #8 "In XOE, problem deleting a heading or changing it to another Pstyle" is probably fixed.