

Section 4.14, A.2.2.1, Syntax 4-6
Casting with packed keyword – Mantis item 1401

In A.2.2.1 and Syntax 4-6, REPLACE

casting_type ::= simple_type | constant_primary | signing

WITH

casting_type ::= simple_type | constant_primary | signing | **packed**

In 4.14, REPLACE

When changing the signing, the type of the expression to be cast shall pass through unchanged, except for the signing.

WITH

When changing the signing, the type of the expression to be cast shall pass through unchanged, except for the signing.

Casting with the **packed** keyword converts a value of a bit-stream type into a value of an unsigned, simple bit vector type containing the same number of bits. It shall be legal to cast an expression with the **packed** keyword if and only if it would be legal to apply the `$bits` system function (see 22.3) to the expression at elaboration. If `type(expr)` contains any 4-state data, then the value of `packed'(expr)` shall be `type(logic[$bits(expr)-1:0])'(expr)`, otherwise it shall be `type(bit[$bits(expr)-1:0])'(expr)`.