Constant_primary as delay in ##N

Modify Syntax 16-2 and 16-3, and A.2.10

from

cycle_delay_range ::=
integral_number
| ## identifier
| ## (constant_expression)
| ## [cycle_delay_const_range_expression]

to

cycle_delay_range ::=
~~## integral_number~~
~~| ## identifier~~
~~| ## (constant_expression)~~
constant_primary
| ## [cycle_delay_const_range_expression]
constant_primary ::=
primary_literal
| ps_parameter_identifier constant_select
| specparam_identifier [constant_range_expression]
| genvar_identifier[31]
| [package_scope | class_scope] enum_identifier
| constant_concatenation
| constant_multiple_concatenation
| constant_function_call
| (constant_mintypmax_expression)
| constant_cast
| constant_assignment_pattern_expression
| type_reference[28]
constant_mintypmax_expression ::=
constant_expression
| constant_expression : constant_expression : constant_expression

Modify 16.6

from

In this syntax, the following statements apply:

— *constant_expression* is computed at compile time and must result in an integer value.

— *constant_expression* can only be 0 or greater.

— The **$** token is used to indicate the end of simulation. For formal verification tools, **$** is used to indicate a finite, but unbounded, range.

— When a range is specified with two expressions, the second expression must be greater than or equalto the first expression.

to

In this syntax, the following statements apply:

— *constant_primary* includes *constant_expression* which ~~*constant_expression*~~ is computed at compile time and must result in an integer value. Furthermore, *constant_expression* and the bounds in *cycle_delay_const_range_expression* can only be 0 or greater.

~~— *constant_expression* can only be 0 or greater.~~

— The **$** token is used to indicate the end of simulation. For formal verification tools, **$** is used to indicate a finite, but unbounded, range.

— When a range is specified with two expressions, the second expression must be greater than or equal to the first expression.

— In a *cycle_delay_range*, it shall be illegal for a *constant_primary* to contain a *constant_mintypmax_expression* that is not also a *constant_expression*.