7.10.1 Built-in `namespace` package

SystemVerilog provides a built-in `namespace` package that contains system types (e.g., classes), variables, tasks, and functions. The built-in namespace resides at the top of the hierarchy. Users may not insert additional declarations into the built-in `namespace` package. The built-in package is implicitly wildcard imported into every compilation unit (see Section 18.2). Thus, declarations in the built-in `namespace` package are directly available in any scope, (like system tasks and functions,) and can be unless they are redefined by user code. in any other scope. However, unlike system tasks and functions, the tasks and functions in the built-in `namespace` may not be redefined by PLI functions.

| built_in_data_type ::= [ :: ] data_type_identifier | // Not in Annex A |
| built_in_function_call ::= [ :: ] built_in_identifier [ ( list_of_arguments ) ] |

The scope resolution operator `::` with no identifier on the left can be used to unambiguously access names in the built-in `namespace` package. For example:

```plaintext
::sys_task();  // unambiguously call the system provided sys_task
```

Unlike system tasks and functions, tasks and functions in the built-in `namespace` package need not be prefixed with a `$` to avoid collisions with user-defined identifiers. This mechanism allows functional extensions to the language in a backward compatible manner, without the addition of new keywords or polluting local name spaces.