

Section 32.22 Class variables

REPLACE

NOTES

- 1)
- 2) ...
- 3) **vpiClassDefn** returns the ClassDefn that was used to create the handle. **vpiActualDefn** returns the ClassDefn that handle object points to when the query is made. The difference can be seen in the example below:

```
class Packet
...
endclass : Packet

class LinkedPacket extends Packet
...
endclass : LinkedPacket

LinkedPacket l = new;
Packet p = l;
```

In this example, the **vpiClassDefn** of variable p is Packet, but the **vpiActualDefn** is “LinkedPacket”.

WITH

- 1)
- 2)
- 3) ~~**vpiClassDefn** returns the ClassDefn that was used to create the handle. **vpiActualDefn** returns the ClassDefn that handle object points to when the query is made. The difference can be seen in the example below:~~

vpiClassDefn returns the class defn with which the class var was declared in the SystemVerilog source text. **vpiActualDefn** shall return the class defn of the object to which the class var is currently pointing. The **vpiActualDefn** handle could either be the base class (obtained with **vpiClassDefn**), a subclass derived from the base class, or NULL if the class var is uninitialized or assigned to NULL. The difference between **vpiClassDefn** and **vpiActualDefn** can be seen in the following example:

```
class Packet;
...
endclass : Packet

class LinkedPacket extends Packet;
...
endclass : LinkedPacket
```

```
LinkedPacket l = new;  
Packet p = l;
```

In this example, the **vpiClassDefn** of variable p is “Packet”, but the **vpiActualDefn** is “LinkedPacket”.