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ECEn 620
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Assignment 11

2. In Sample 11.6, can numRX be replaced with RX.size()? Why or why not?

No. The RX (the virtual interfaces array) for whatever reason may be larger than the number of RX you actually want in the test bench. Having the numRX value allows you to specify this in the off chance that numRX is different from RX.size().

4. In sample 11.9, what coverage object does the handle cov point to?

It points to the Coverage object instantiated by the new function of the Environment class.

6. In Sample 11.18, why are the \$cast() required?

UNI_CELL extends base transaction. It is possible that a handle to a base transaction object (which might actually be a UNI_CELL object) may be passed. This requires a cast.

7. In sample 11.19 and 11.20, why are the typedef declaration needed?

These are forward declarations. This allows the class to be declared without being created.

10. Why do classes Environment, Scoreboard, CPU_driver all define a handle to class Config? Are 3 objects of class Config created?

They all reference it. Only one instance of that config object is created.