SynthWorks

VHDL Training Experts

TranscriptPkg Quick Ref

1. Package References
Using TranscriptPkg requires the following references:

```
library osvvm ;
use osvvm.TranscriptPkg.all ;
```

2. TranscriptFile
TranscriptFile is internal to TranscriptPkg.

```
file TranscriptFile : text ;
```

3. TranscriptOpen
TranscriptOpen opens the TranscriptFile. When the transcript is open, alert, log, ReportAlerts, WriteLine, and print use the TranscriptFile, otherwise, they use OUTPUT.

```
--     file open status,   File name,   file open kind
TranscriptOpen(Status, "./Results.txt", WRITE_MODE) ;
TranscriptOpen("./Results.txt", WRITE_MODE) ;
```

FILE_OPEN_KIND defaults to WRITE_MODE.   Usage of READ_MODE will generate a compile error.

Usage of the function form allows a file to be opened in a declarative region (such as in a package).

```
Status :=  -- function form
    TranscriptOpen("./Results.txt", WRITE_MODE) ;
```

4. TranscriptClose
TranscriptClose closes the file TranscriptFile.

```
TranscriptClose ;
```

5. WriteLine
WriteLine writes the buffer to the TranscriptFile when it is open, otherwise, std.textio.OUTPUT.

```
swrite(buf, "A Message") ;

writeline(buf) ;
```

6. Print
Print writes the string to the TranscriptFile when it is open, otherwise, std.textio.OUTPUT.

```
Print("Another Message") ;
```

7. IsTranscriptOpen
IsTranscriptOpen returns TRUE when the TranscriptFile is open.

```
if IsTranscriptOpen then
  swrite(buf, "Yet Another Message") ;
  writeline(TranscriptFile, buf) ;
end if;
```

8. SetTranscriptMirror
SetTranscriptMirror sets mirror mode in which Print and WriteLine write to both TranscriptFile and std.textio.OUTPUT.

```
SetTranscriptMirror ;
```

9. IsTranscriptMirrored
IsTranscriptMirrored returns true when the transcript is mirrored.

```
if IsTranscriptMirrored then

  . . .
```