OsvvmGlobalPkg Package User Guide

User Guide for Release 2024.11

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1 OsvvmGlobalPkg Overview

Release 2024.03 deprecated most of the functionality in this package. At this point, only OsvvmOptionsType, IsEnabled, and to_OsvvmOptionsType remain. OsvvmOptionsType is used with SetAlertLogOptions and

2 Package User Subprogram Reference

2.1 Package Reference

```
library osvvm ;
use osvvm.OsvvmGlobalPkg.all ;
```

2.2 OsvvmOptionsType: Type for OSVVM options

```
type OsvvmOptionsType is (OPT_INIT_PARM_DETECT, OPT_USE_DEFAULT, DISABLED, FALSE,
    ENABLED, TRUE) ;
```

2.3 IsEnabled

```
function IsEnabled (A : OsvvmOptionsType) return boolean ;
```

2.4 to_OsvvmOptionsType

```
function to_OsvvmOptionsType (A : boolean) return OsvvmOptionsType ;
```

3 Deprecated and Removed Items

3.1 Migrating SetOsvvmGlobalOptions to Constants in OsvvmSettingsPkg

With OSVVM release 2024.03, the procedure SetOsvvmGlobalOptions was deprecated and removed. These settings are now done by constants in OsvvmSettingsPkg_default.vhd. If you want to change the setting, copy OsvvmSettingsPkg_default.vhd to OsvvmSettingsPkg_local.vhd and make the changes you desire.

The following table shows the parameter of SetOsvvmGlobalOptions and its corresponding constant in OsvvmSettingsPkg.

Parameter Name	Constant that replaces it
WritePassFail	COVERAGE_WRITE_PASS_FAIL
WriteBinInfo	COVERAGE_WRITE_BIN_INFO
WriteCount	COVERAGE_WRITE_COUNT
WriteAnyIllegal	COVERAGE_WRITE_ANY_ILLEGAL
WritePrefix	OSVVM_PRINT_PREFIX
DoneName	OSVVM_DONE_NAME
PassName	OSVVM_PASS_NAME
FailName	OSVVM_FAIL_NAME

4 About OsvvmGlobalPkg

OsvvmGlobalPkg is part of the OSVVM Utility library.

OsvvmGlobalPkg was created by Jim Lewis of SynthWorks.   Please support our work by buying your VHDL Training from SynthWorks.

OsvvmGlobalPkg.vhd is a work in progress and will be updated from time to time. Caution, undocumented items are experimental and may be removed in a future version.

5 Compiling and Using OSVVM Utility Library

Reference all packages in the OSVVM Utility library by using the context declaration:

```
library OSVVM ;
  context osvvm.OsvvmContext ;
```

Compilation order for OSVVM Utility Library is in OSVVM_release_notes.pdf.   Rather than learning this, we recommend using the OSVVM compilation scripts.

OSVVM Utility library is released under the Apache open source license.   It is free (both to download and use - there are no license fees). You can download it from osvvm.org or from our development area on GitHub (https://github.com/OSVVM/OSVVM).

If you add features to the package, please donate them back under the same license as candidates to be added to the standard version of the package. If you need features, be sure to contact us.

We also support the OSVVM user community and blogs through http://www.osvvm.org. Interested in sharing about your experience using OSVVM? Let us know, you can blog about it at osvvm.org.

6 About the Author - Jim Lewis

Jim Lewis, the founder of SynthWorks, has thirty plus years of design, teaching, and problem solving experience.   In addition to working as a Principal Trainer for SynthWorks, Mr Lewis has done ASIC and FPGA design, custom model development, and consulting.

Mr. Lewis is chair of the IEEE 1076 VHDL Working Group (VASG) and is the primary developer of the Open Source VHDL Verification Methodology (OSVVM.org) packages. Neither of these activities generate revenue.

Please support our volunteer efforts by buying your VHDL training from SynthWorks.

If you find bugs these packages or would like to request enhancements, you can reach me at jim@synthworks.com.