

OCP Adoption

OCP 2.0 Formal Library of Assertions

Through its acquisition by TNI-Valiosys, TransEDA has become in 2003 an OCP-IP Sponsor Member. Since then, the company has also enhanced its OCP-based designs verification portfolio by completing the OCP 1.0 verification kit in addition to the existing and customer adopted OCP 2.0 HPK (Hardware Protocol Kit). Both libraries of assertions shall be used in conjunction with TransEDA's automatic property checking tool, imPROVE-HPK. The combined solution of the automatic formal verification environment and a Hardware Protocol Kit enables OCP-IP members to rapidly, automatically and exhaustively verify the behavior of their SoC interface controller designs, according to the OCP 1.0 or 2.0 standards. OCP-IP believes the contribution of imPROVE-HPK OCP will continue by its user friendliness to fuel the ease of OCP adoption. TransEDA will contribute one-year subscription licenses of the OCP 1.0 and 2.0 HPK libraries of assertions free of charge to all OCP-IP Governing Steering Committee (GSC) Members.

Each OCP HPK Library includes:

1. OCP slave assertions which model the environment for an OCP master port and which describe the properties that should always be true for an OCP slave port.
2. OCP master assertions which model the environment for an OCP slave port and which describe the properties that should always be true for an OCP master port.
3. OCP protocol coverage goals that target most behaviors for either a slave or a master port and that must be reachable.
4. OCP Performance Properties used to automatically determine the design's functional bottlenecks.

Both OCP 1.0 and 2.0 features are covered, including:

- All OCP parameters and signals accepted
- Basic transactions (MCmd, SCmdAccept, SResp, MRespAccept) support
- All kinds of posted and non-posted requests support
- Pipelined masters and slaves support
- Bursts modes support [Incrementing, Streaming, Wrapping (OCP 2.0)]
- Multi-threading support

For more information, visit www.transeda.com.

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