

Silicon Integration Initiative

oaScript Overview



What is “oaScript”?

- ❑ oaScript is an **API** enabling the use of **scripting languages** to access the **OA** design database.
 - “**OA**” = OpenAccess, as defined by the **OpenAccess** Coalition
 - **API** = The **I**nterface between the **A**pplication **P**rogram an EDA developer creates and the design database
 - **Scripting Languages** = Very popular, shell level, languages that require no compile step to execute

So What's the Big Deal?

- An OpenAccess Design database can be generated and utilized by most design tools (Cadence, Synopsys, Mentor, Keysight, and more)
- So now you can get to the design data from a shell script in:
 - Python
 - Perl
 - Ruby
 - tcl
- So you don't need to be an Application Developer to use oaScript
 - Designers
 - Researchers
 - Application Prototyping

How do Members use “oaScript”?

- ❑ Designers make point of use applications (“point tools”) all the time
 - Must be done fast
 - Task specific, throw away, scripts
- ❑ Researchers need tools that don’t exist yet
 - They must build the tool if you can’t buy it
 - Needs to be fast and easy
- ❑ EDA Developers use oaScript
 - A fast way to learn the OpenAccess API
 - Scripts support the same Classes as the C++ API
 - Quickly prototype new tools
- ❑ Students like Python!
 - New Engineers and Programmers already know Python



How do I get oaScript?

Join the OpenAccess Coalition!

- Cost varies by company size
- Dues Calculator
 - www.si2.org->Join->Membership Quote
- Director Level Members (>1Billion Revenue) can Participate in the OAC Governing Bodies
- All OpenAccess Extensions are available to the membership
 - Including oaScript
- Any member can participate in Extension Working Groups
 - Invest in your favorite Extensions

There are many other advantages to membership!

- Go to: www.si2.org->Join

