

Kactus2

- Modern SoCs are designed by integrating both in-house and external IP blocks.
- The plurality of vendors makes this integration difficult, as no two vendors are likely to define the metadata of their blocks in the same way.
- Enter the IP-XACT standard.
- Kactus2 is a graphical tool for "creating and reusing intellectual property".
- Homemade



```
commit 6a58bd27a48a6c523ddc8d210032df50822700b8
Author: Joni-Matti Määttä <joni-matti.maatta@tut.fi>
Date: Mon Oct 3 07:55:17 2011 +0000

    Added base folders.

git-svn-id: svn://svn.code.sf.net/p/kactus2/code/trunk@1 f0aa6db5-7f46-43cc-a8a5-a31efdaafa67

commit 849323f63fc0f292f1e172f92a0fd23acf711220
Author: Joni-Matti Määttä <joni-matti.maatta@tut.fi>
Date: Mon Oct 3 19:00:08 2011 +0000

    Added the Kactus2 project.

git-svn-id: svn://svn.code.sf.net/p/kactus2/code/trunk@2 f0aa6db5-7f46-43cc-a8a5-a31efdaafa67
```



What it does and how

- Creation of new IP-XACT components
- Import existing verilog/vhdl modules to make their IP-XACT packages
- Create hardware designs with hierarchy
- Generators can produce synthesizable code for hardware designs
- **Kactus does not do module implementation, synthesis or simulation!**

Kactus2

File Library View Workspace System

IP-XACT Library

VLNV Tree Hierarchy

Library items > tut.fi

Search

Library Filters

Type: Implementation: Product Hierarchy: Firmness: Correctness: IP-XACT version: 2014 2022

Tags:

Component Preview

Output

===== Library integrity check complete =====

Total library object count: 6

Total file count in the library: 0

Context Help

Welcome to Kactus2

This window will give context-sensitive guidance during your use of Kactus2.

[Getting started](#) section will guide you through the basic setup for configuring your IP-XACT library and accessing

Design Parameters

Parameters

Name	Name	Display name

Ad-hoc Port Editor

Name	Direction	Ad-hoc

Port information

Name:

Direction:

Left bound:

Right bound:

Tied value:

Value:

Left bound:

Right bound:

Vendor Extensions (experimental)

Namespace	Name	Attributes

3620 text files.
3420 unique files.
540 files ignored.

github.com/AlDanial/cloc v 2.08 T=2.24 s (1526.2 files/s, 297593.6 lines/s)

Language	files	blank	comment	code
C++	1488	66549	74109	271703
C/C++ Header	1492	36994	114864	54234
XML	57	62	12	21615
HTML	116	432	54	8233
ProGuard	168	1534	1660	3914
Text	7	474	0	2801
CSS	1	455	122	2104
MSBuild script	3	0	0	1458
Python	17	226	50	667
Qt Project	26	197	70	521
Visual Studio Solution	1	1	1	391
Markdown	4	122	0	328
SWIG	4	28	16	114
YAML	3	21	26	110
INI	2	11	0	107
JSON	22	1	0	101
JavaScript	1	23	35	99
Bourne Shell	2	11	11	63
Windows Resource File	1	21	28	31
DOS Batch	4	2	18	16
TeX	1	2	0	15
SUM:	3420	107166	191076	368625

Languages

