

Sigasi productivity hacks

The benefits of early detection

The benefits of early detection

About - company

- Founded in 2008
- Translates tools & practices from the software engineering world to the digital circuits design world



Sigasi;



Sigasi Studio

Your instant verification & design assistant

Si;

Code

Compile

Simulate

Sigasi Veresta

DevOps for hardware design teams

VHDL-Verilog-SystemVerilog

Team code repository

Continuous integration



Sigasi SDK

Enrich your EDA suite with our toolkit

your EDA tool
with HDL editor

Sigasi
Language
Server



The benefits of early detection

About your host

Bart Brosens

- Previously a hardware designer (& a Sigasi user 😊)
- Leads the Sigasi support & training team
- Introduces new products with demos & trials

Contact Bart with your questions: support@sigasi.com



The benefits of early detection

Do you remember?

- Ariane 5 - maiden flight on 4 June 1996
- Integer overflow
- “one of the most infamous and expensive software bugs in history”

The earlier you can catch a mistake, the more
affordable it is to fix

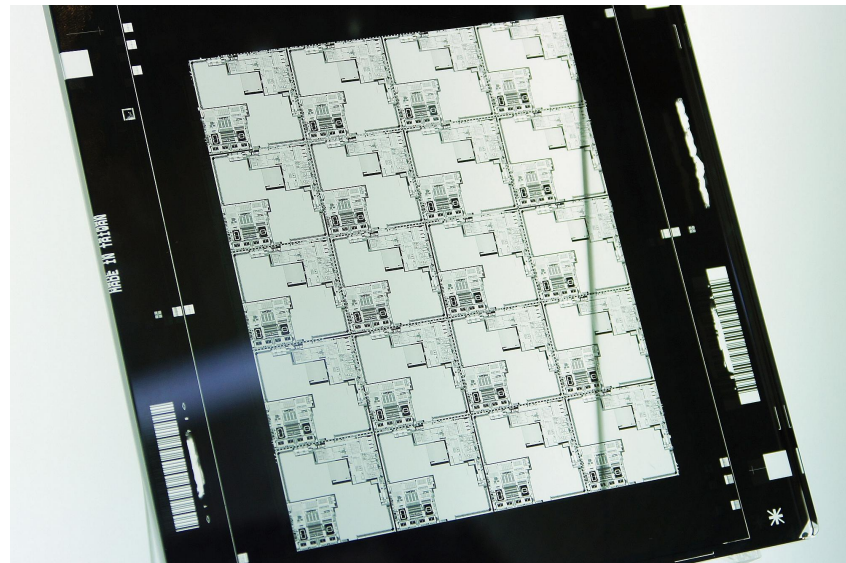


The benefits of early detection

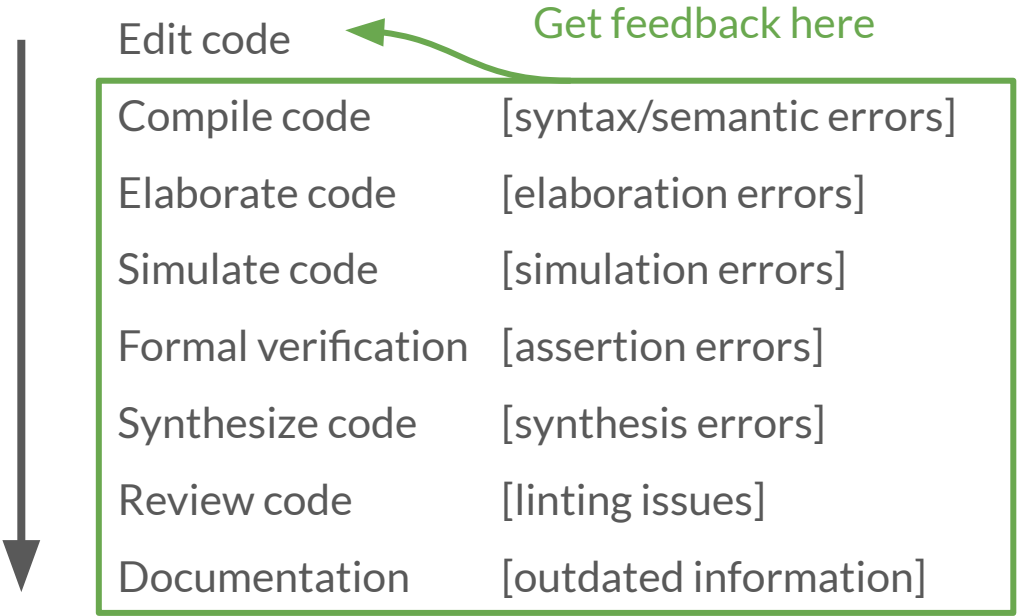
Digital Electronics & HDL code

- Avoid pitfalls associated with both ASIC & FPGA
 - Substantial mask set costs for ASIC
 - FPGA re-programming can present significant challenges

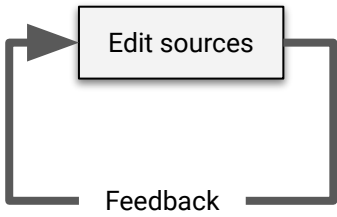
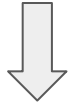
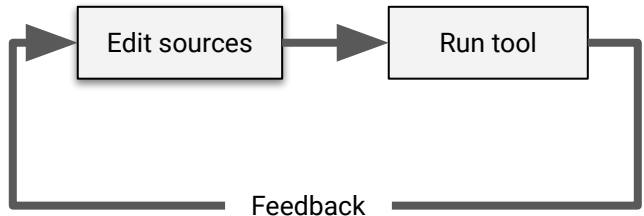
The earlier you can catch a mistake,
the easier it is to fix



Detection & Feedback Stages



Catch mistakes as fast as possible





Code editing



Code browsing



Code checking

3 Early Detection Hacks

1. Contextual content assist

Be faster with fewer errors

2. Smart code hovers

Instant relevant info

3. Visual code checks (XPRT)

Visualize your work

3 Early Detection Hacks

1. Contextual content assist

Be faster with fewer errors

- Find whatever you need using Ctrl+Space in the editor
- Automatically correct syntax, e.g. for instantiations
- Supports packages and libraries

3 Early Detection Hacks

1. Contextual content assist
Be faster with fewer errors
2. Smart code hovers
Instant relevant info
3. Visual code checks (XPRT)
Visualize your work

3 Early Detection Hacks

2. Smart code hovers

Instant relevant info

- Relevant information just by hovering your mouse cursor
- Declarations, preprocessor information, constant propagation, etc
- Includes extra documentation from code comments

3 Early Detection Hacks

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Be faster with fewer errors

2. Smart code hovers

Instant relevant info

3. **Visual code checks (XPRT)**

Visualize your work

3 Early Detection Hacks

3. Visual code checks (XPRT)

Visualize your work

- Augment the mental image of your design using various views

Did You Know?

Ctrl+3

Interesting Links

Check It Out

[XPRT Trial](#)

Advance Yourself

[Insights](#)

[Sigasi Studio Manual](#)

[Screencast Tutorials](#)

Sigasi Studio XPRT

Everything from XL
plus

State Machine Diagrams

Block Diagrams

VUnit View

Export HTML Documentation

Contact us any time with questions: support@sigasi.com

Questions ?