## **Project IceStorm**

Coding, Gaming, Gambling &

12017 00 10. Neicasca support for Er out office (in an package variants)

Ouchen

2016-02-07: Support for all package variants of LP1K, LP4K, LP8K and

HX1K, HX4K, and HX8K.

**2016-01-17:** First release of IceTime timing analysis.

Video: <a href="https://youtu.be/IG5CpFJRnOk">https://youtu.be/IG5CpFJRnOk</a>

2015-12-27: Presentation of the IceStorm flow at 32C3 (Video on

Youtube).

2015-07-19: Released support for 8k chips. Moved IceStorm source code

to GitHub.

2015-05-27: We have a working fully Open Source flow

with Yosys and Arachne-pnr! Video: http://youtu.be/yUiNlmvVOg8

2015-04-13: Complete rewrite of IceUnpack, added IcePack, some major

documentation updates

2015-03-22: First public release and short YouTube video demonstrating

our work: http://youtu.be/u1ZHcSNDQMM

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## What is Project IceStorm?

Project IceStorm aims at documenting the bitstream format of Lattice iCE40 FPGAs and providing simple tools for analyzing and creating bitstream files. The IceStorm flow (Yosys, <u>Arachne-pnr</u>, and IceStorm) is a fully open source Verilog-to-Bitstream flow for iCE40 FPGAs.

The focus of the project is on the iCE40 LP/HX 1K/4K/8K chips. (Most of the work was done on HX1K-TQ144 and HX8K-CT256 parts.) The iCE40 UltraPlus parts are also supported, including DSPs, oscillators, RGB and SPRAM. iCE40 LM, Ultra and UltraLite parts are not yet supported.

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