

HLS4ML

HLS4ML is a user-friendly software, based on High-Level Synthesis (HLS), designed to deploy network architectures on FPGAs. The package is project shared within CERN, Fermilab, and MIT. All details can be found at this URL [↗](#). This page only describes how to get start with HLS4ML from a CERN account in the local computing environment.

Getting started

Installing Vivado HLS

Download Vivado 2017.2 from the Xilinx website [↗](#) the Linux Self Extracting Web Installer (file.bin) from HLx Editions Full Product Installation would work

Installation:

```
chmod 755 file.bin
./file.bin
```

Follow the instructions on the GUI. The default options would typically work ok on a CERN machine.

Setup and licenses (check with IT for the CERN specific values):

```
export XILINXD_LICENSE_FILE=XXX@lxlicenXX
source /your_installation_dir/Xilinx/DocNav/.settings64-DocNav.sh
source /your_installation_dir/Xilinx/Vivado/2017.2/.settings64-Vivado.sh
source /your_installation_dir/Xilinx/Vivado_HLS/2017.2/.settings64-Vivado_High_Level_Synthesis.sh
```

-- MaurizioPierini - 2018-04-27

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Topic revision: r1 - 2018-04-27 - MaurizioPierini



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