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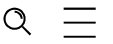
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Whitney Knitter (/whitney-knitter)

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Installing Vivado, Vitis, & PetaLinux 2021.2 on Ubuntu 18.04

This project walks through how to prep an Ubuntu 18.04 desktop environment and install Vivado, Vitis, & PetaLinux version 2021.

Beginner(/projects?difficulty=beginner) Full instructions provided 4 hours 10,842

The screenshot shows the Xilinx website's 'Downloads' page. The navigation bar includes 'Products' and 'Company'. The breadcrumb trail is 'Home / Support / Downloads'. The main heading is 'Downloads'. There are two buttons: 'Licensing Help' and 'Alveo Accelerator Card'. Below these are five tabs: 'Vivado (HW Developer)', 'Vitis (SW Developer)' (which is selected), 'Vitis Embedded Platforms', 'Alveo Packages', and 'PetaLinux'. Under the 'Vitis (SW Developer)' tab, there is a 'Version' list on the left with '2021.2' selected. To the right of the version list is a box titled 'Vitis Core Development Kit - 2021.2 Full Product Installation'. Inside this box, there is a section for 'Important Information' and 'Vitis Unified Software Platform 2021.2 Release Highlights :'. The first highlight is 'New domain specific development environments'.

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- Vitis Video Analytics SDK on SoM, U30/U50 and VCK5000 board: [Learn More>>](#)
- Vitis Blockchain solution on Varium C1100 board with Vitis libs: [Learn More>>](#)

D

(https://devsummit.arm.com/flow/arm/devsummit22/home/page/lp?utm_source=hackster&utm_medium=display&utm_campaign=2210_armdevsummit_mk17_hackster_eventlisting_na_ondemand)

Ad

(<http://help.hackster.io/knowledgebase/what-are-these-ads>)

Things used in this project

Software apps and online services

Ubuntu
18.04.5
LTS

AMD-
Xilinx
Vitis
Unified
Software
Platform
v2021.2

(<https://www.xilinx.com/support/download/index.html/content/xilinx/en/downloadNav/vi>)

AMD-
Xilinx
PetaLinux
v2021.2

(https://www.xilinx.com/support/download_centers/contents/xilinx/en/downloadNav/em)

Story

I don't hide the fact that I'm a big fan of the Xilinx toolset, but I understand that installing them and getting started can be quite the task for a beginner. It is for this reason that I'm always working on staying up to date and creating new install guides to fill in where I find gaps because there are definitely overall flow changes that occur with pretty much every new release. Over the last couple of months I started migrating to the 2021 versions of the Xilinx tools, and specifically this past week I installed 2021.2. After finding a few gaps in the required package dependencies mentioned anywhere, I decided it was time to write this up again since the last time was for version 2019.2.

I've found you should have at least 300GB of free space available to install all of the Xilinx tools and 32GB - 64GB of RAM with at least 8 CPU cores you can dedicate to them.

System Configuration

All of the Xilinx tools require 32-bit libraries at some point in time to compile. DocNav requires several 32-bit libraries and PetaLinux needs 32-bit architectures for cross

∨ Read more

Credits



Whitney Knitter (/whitney-knitter)

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(/whitney-

knitter) Working as a full-time SDR/FPGA engineer, but making time for the fun projects at home.

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