Diseño Digital Avanzado

Instalación de Herramientas

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Fundación
FULGOR

Tabla de Contenidos

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Sección 1

Instalación de Herramientas

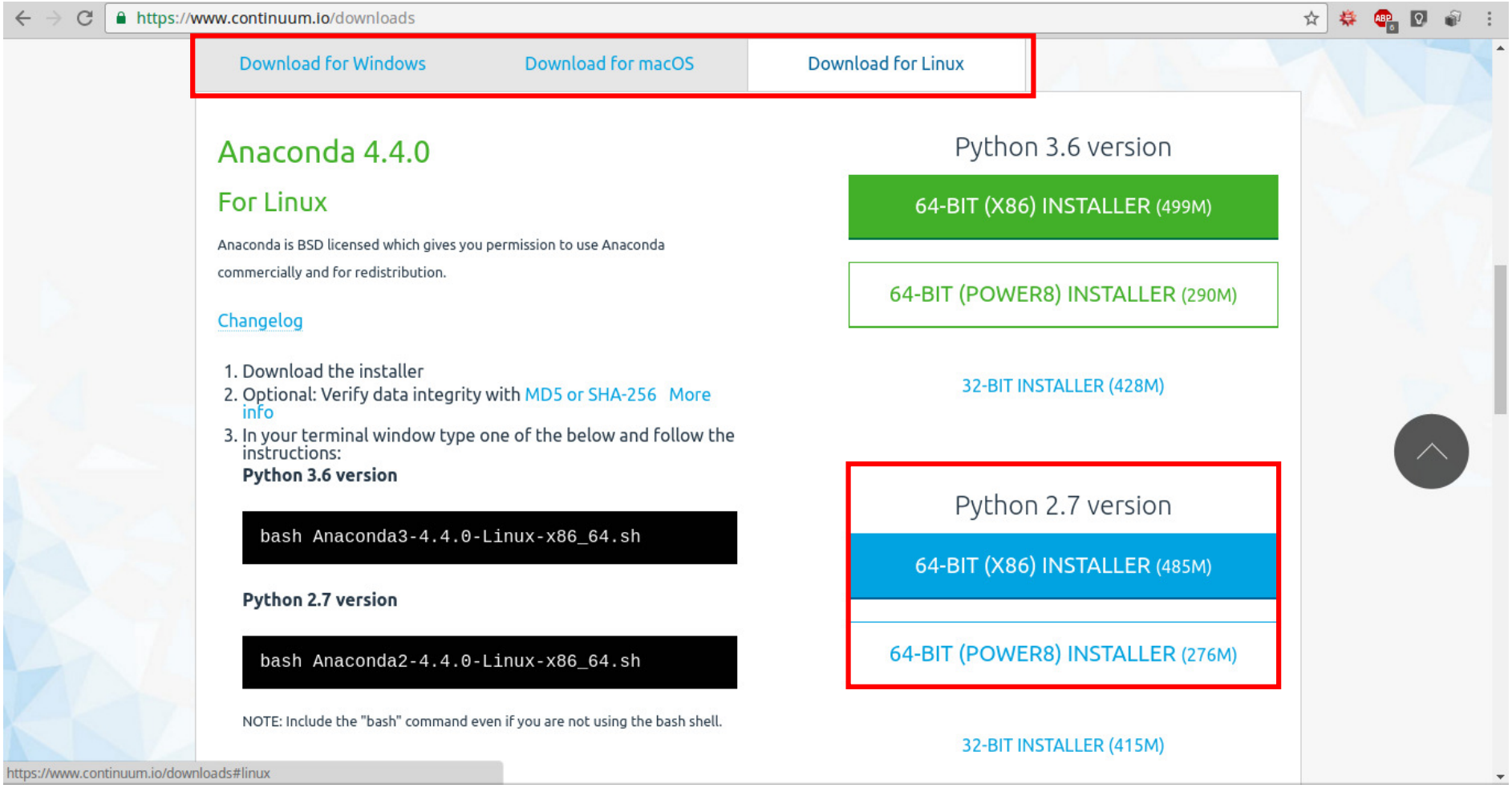
Instalación de Herramientas

Instalar

- Hercules [Puerto Serie]:
  - http://www.hw-group.com/products/hercules/index_en.html
- Putty [Puerto Serie]:
  - http://www.putty.org/
- Python 2.7:
  - https://www.continuum.io/downloads
  1. Seleccione la distribución
  2. Instale Python 2.7
  - Ver Pag. 5
- Xilinx - Vivado HL WebPACK 2017.1 con SDK
  - https://www.xilinx.com/support/download/index.html/content/xilinx/en/downloadNav/vivado-design-tools/2017-1.html
  - Crear un usuario en Xilinx para poder descargar el instalador (https://www.xilinx.com/registration/create-account.html)
  - Después de descargar el instalador dar permiso de ejecución y ejecutarlo (la extensión del instalador varía según la distribución).
  - Ver pasos de instalación en Pag. 6-10

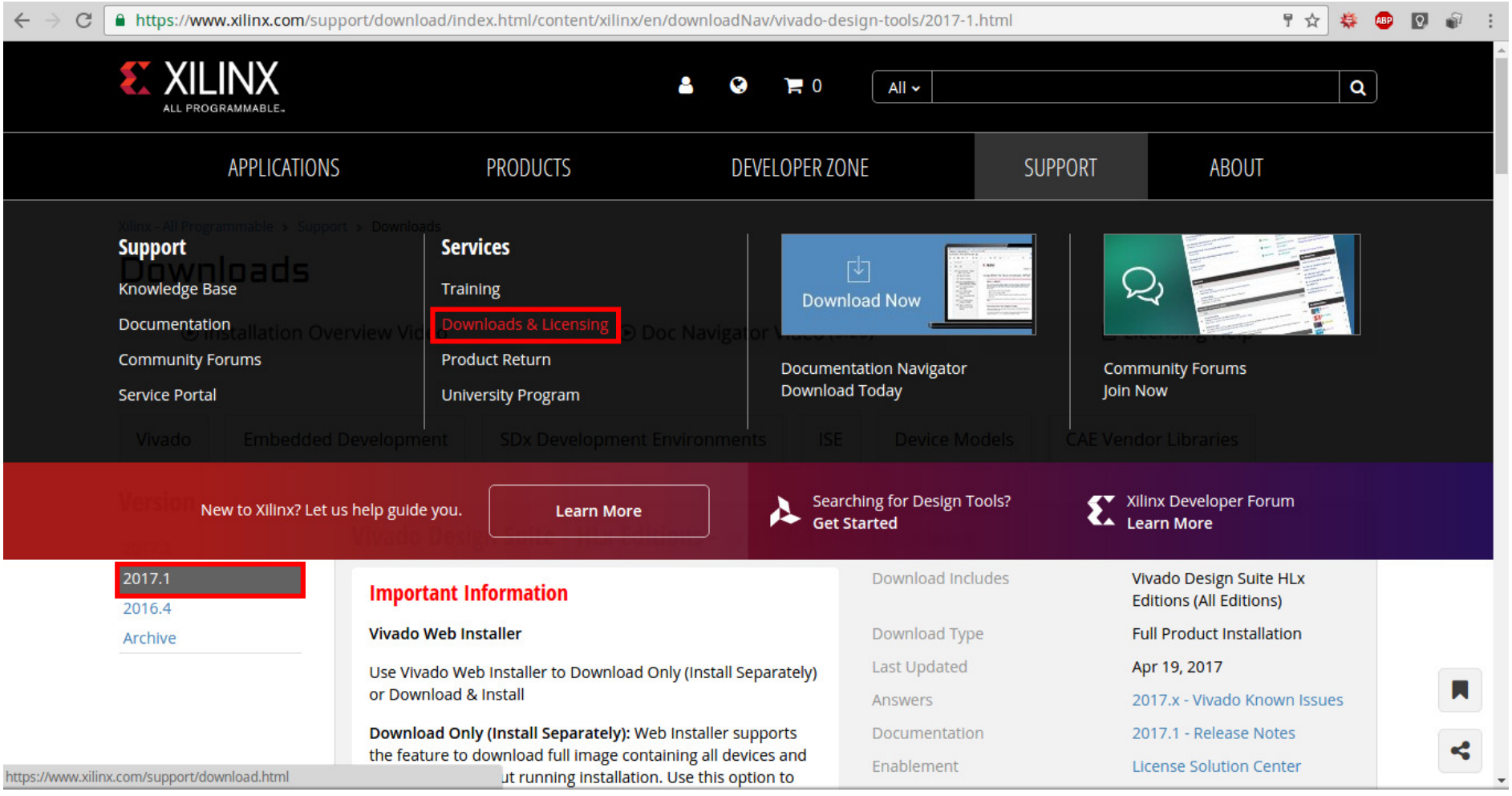
Instalación de Herramientas

Python 2.7



Instalación de Herramientas

Vivado



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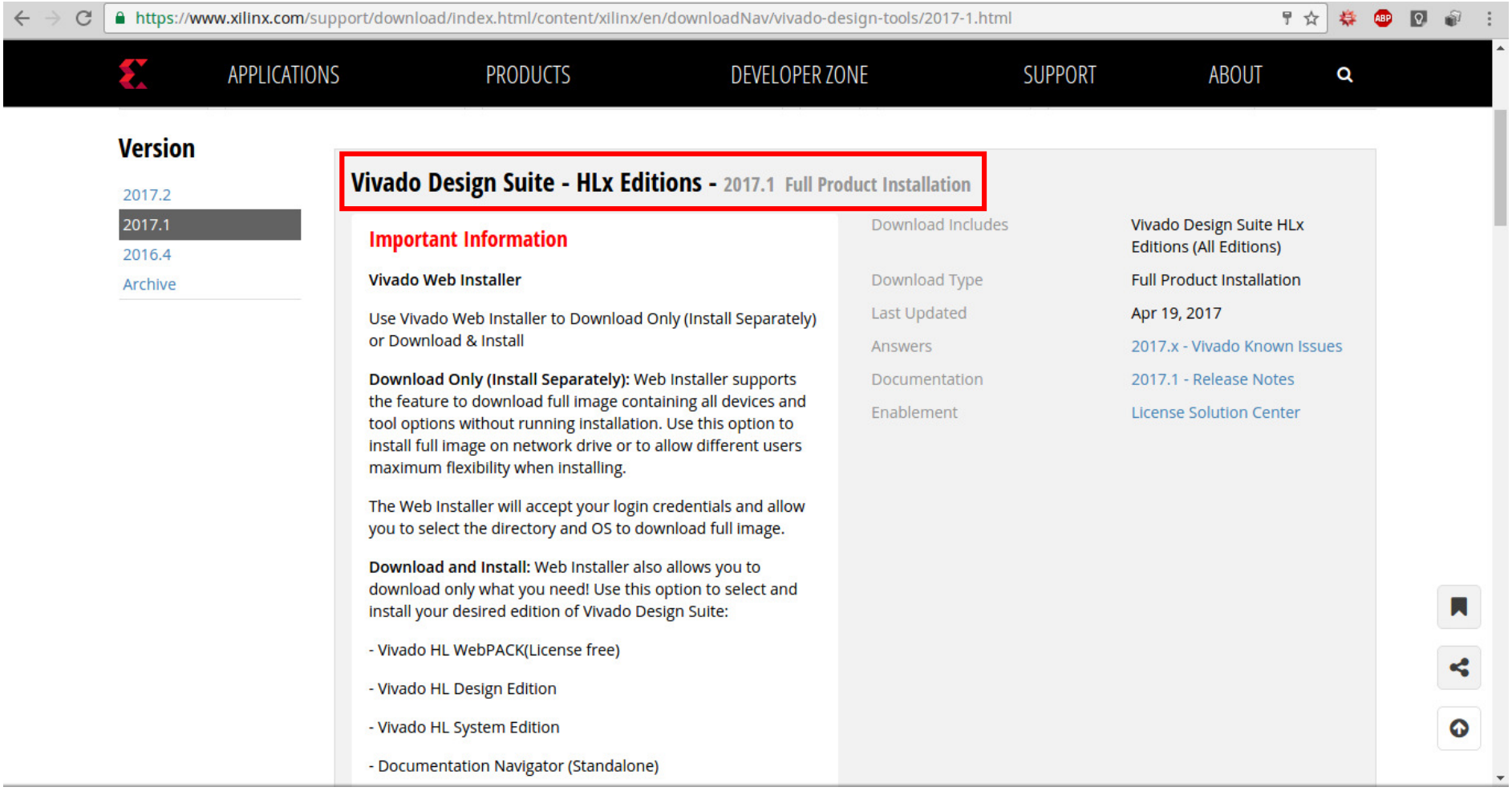

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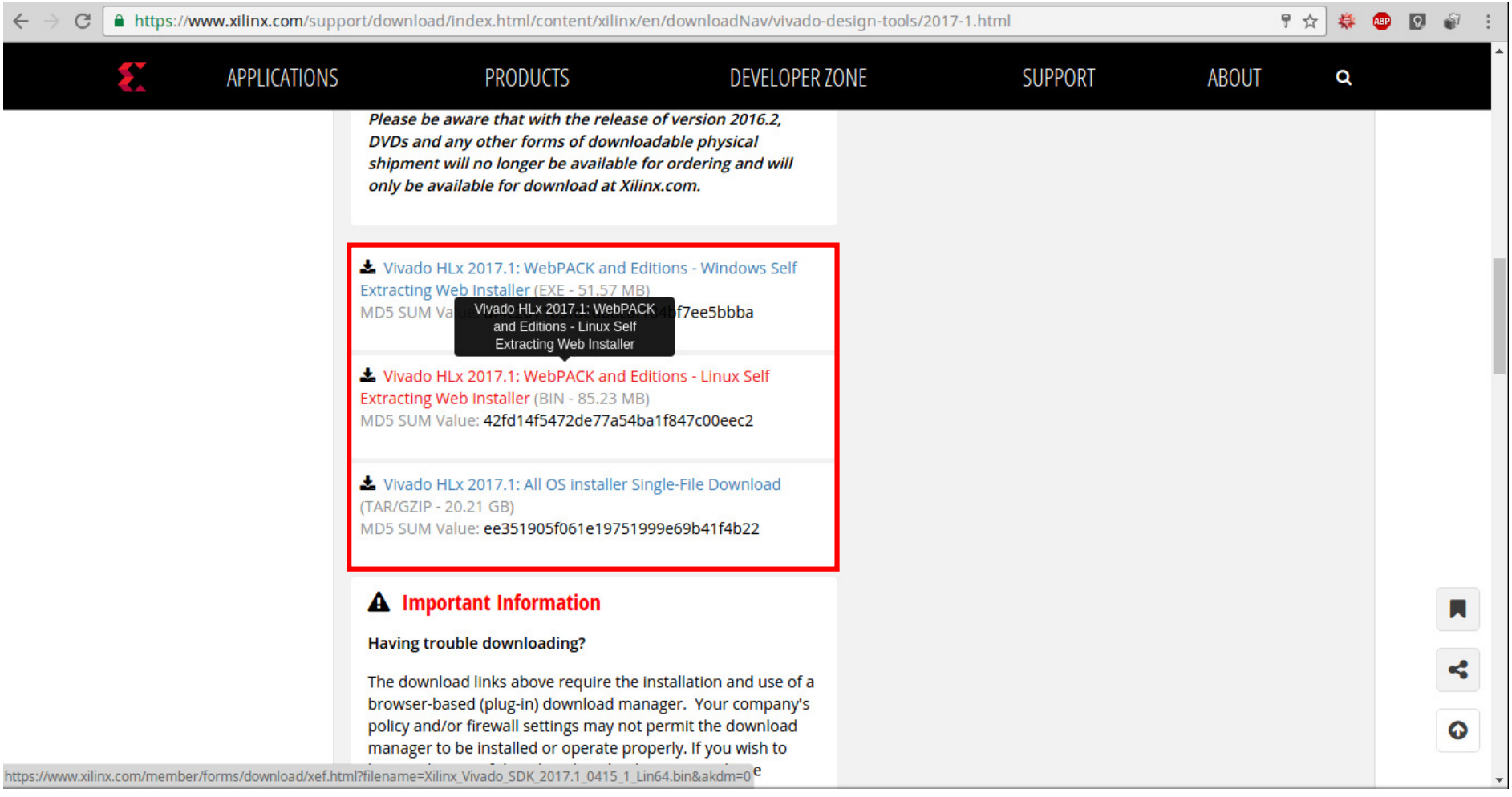

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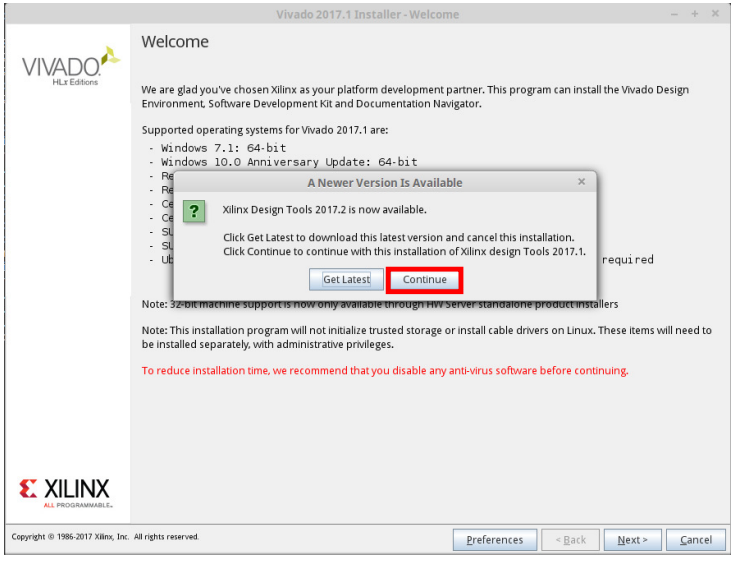

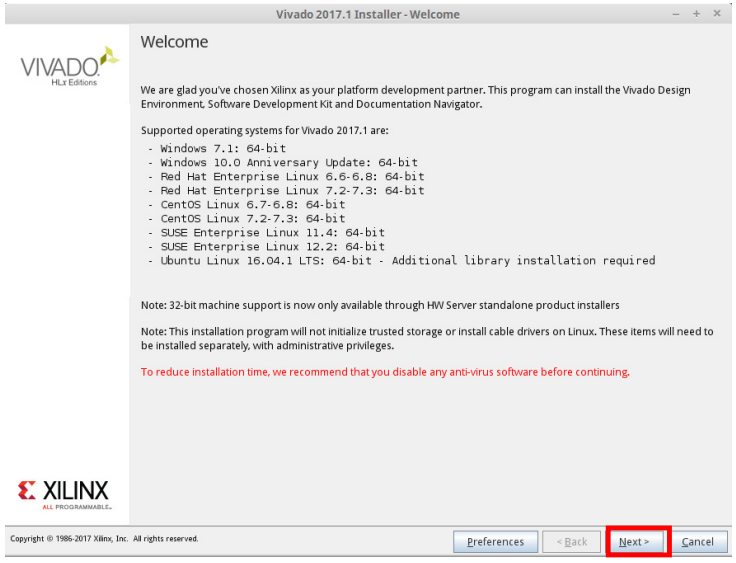

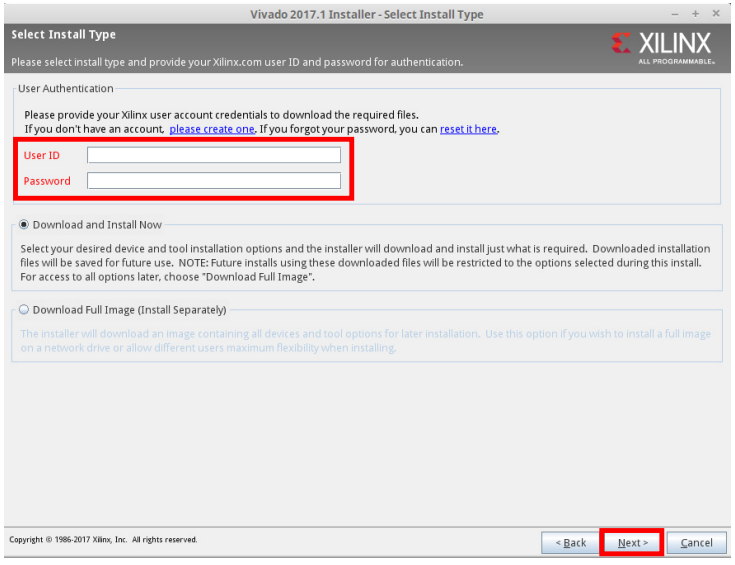

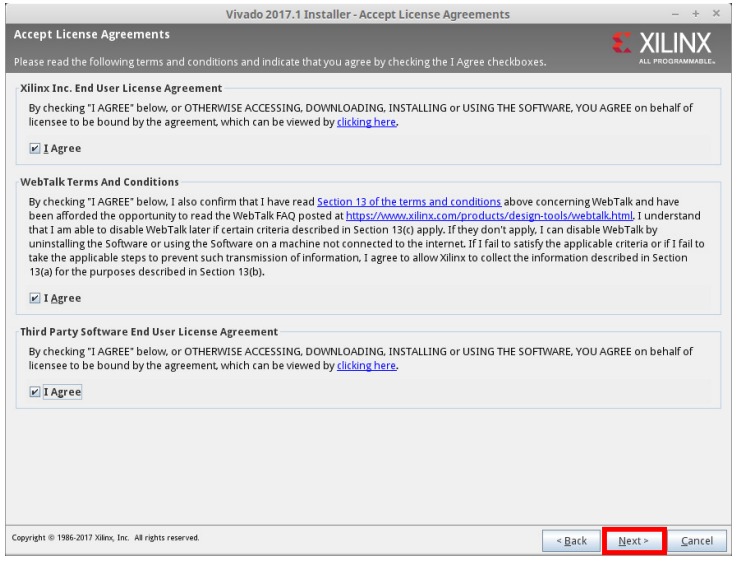

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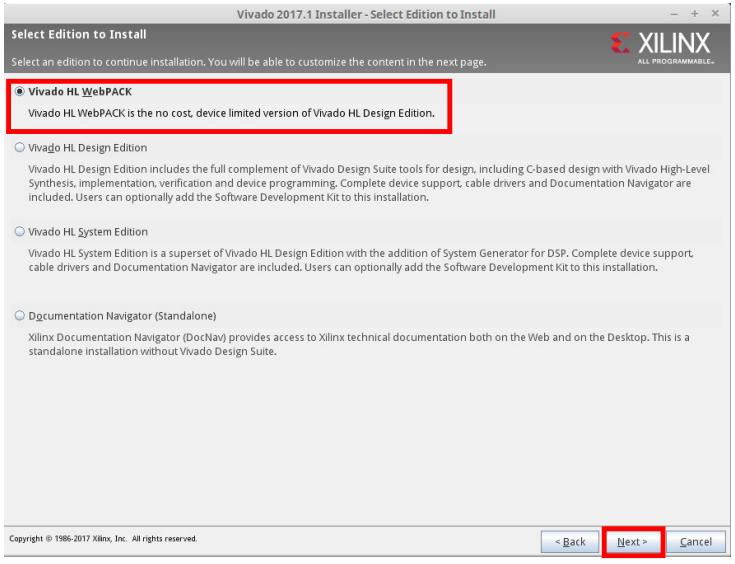
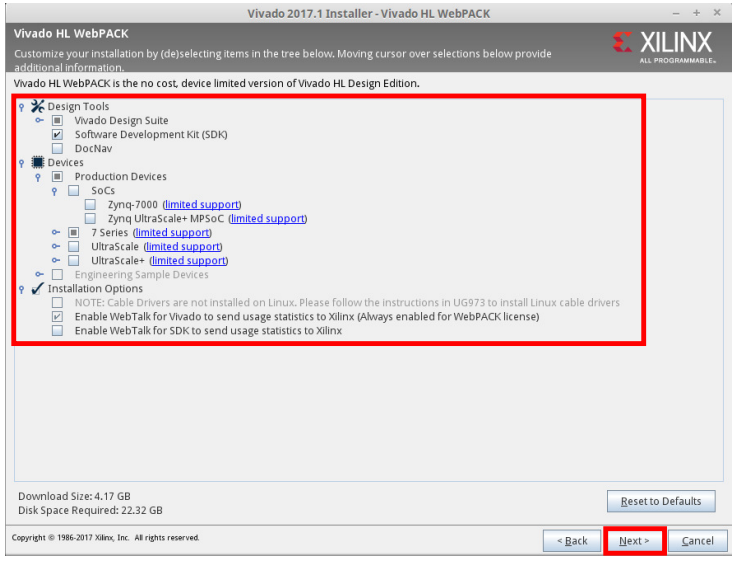
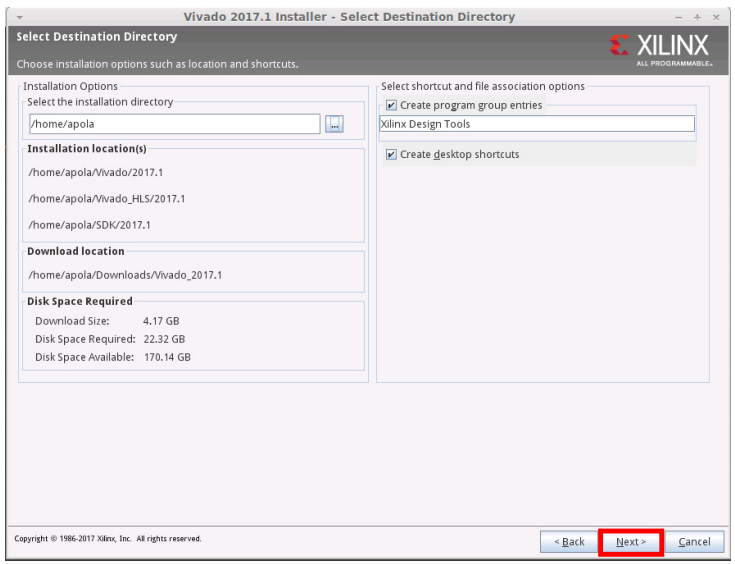
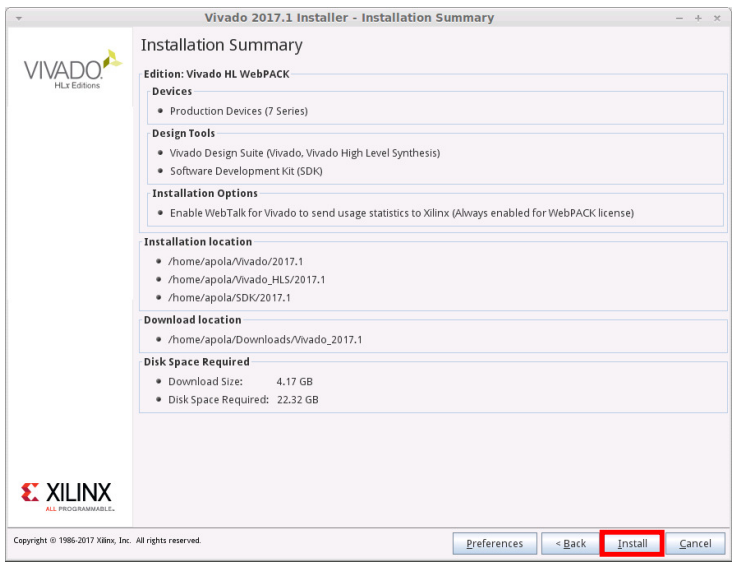








Sección 2

Test Python

Test Python

Test de librerías de Python

1. Descargar el archivo adjunto Python_UART.py
2. Abrir un terminal y en la carpeta donde se dercargó el archivo y ejecutar: python Python_UART.py
   - apola@einstein $ python Python_UART.py
3. Seguir los pasos del script

Tabla de Contenidos

Sección 3

Test Vivado

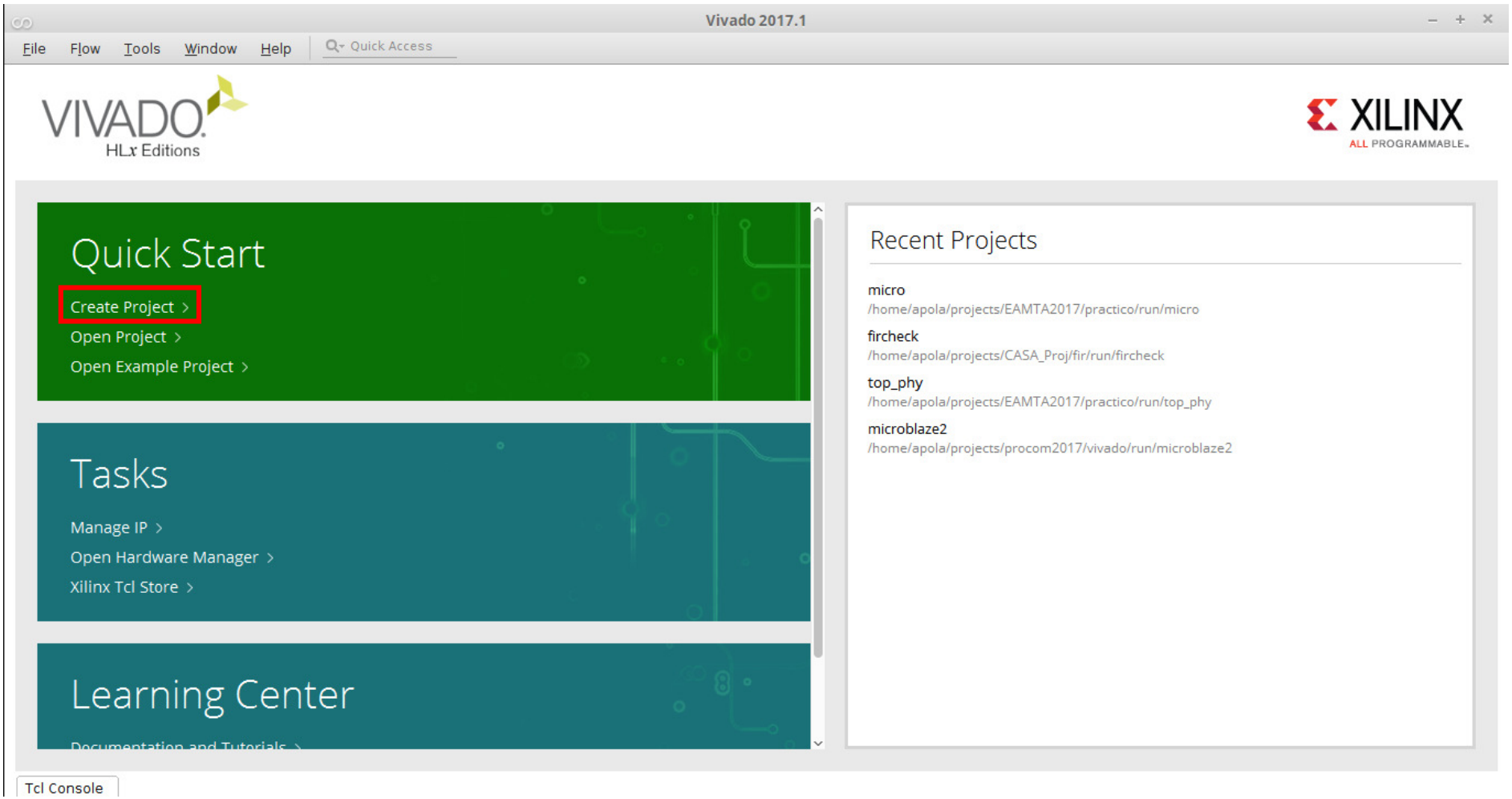
Test Vivado

Test de librerías de Vivado

- Incluir Kit de desarrollo en Vivado
  - Asegurarse que la herramienta Vivado no está ejecutada.
  - Se debe buscar la carpeta **Xilinx/Vivado/2017.1/data/boards/** dentro de donde está instalado Vivado.
  - Copiar el contenido de la carpeta **board_files** a **Xilinx/Vivado/2017.1/data/boards/board_files/**
  - Verificar que se haya copia la carpeta **Xilinx/Vivado/2017.1/data/boards/board_files/arty/C.0**
- Generar Binario
  - Ejecutar el Vivado desde el acceso directo o terminal
  - Crear un proyecto nuevo
  - Seleccionar la placa Arty
  - Incluir los archivos top_microblaze.v y Arty_Master.xdc
  - Generar el binario
  - Los pasos mencionados se detallan en las figuras de las Pag.

Test Vivado

Vivado



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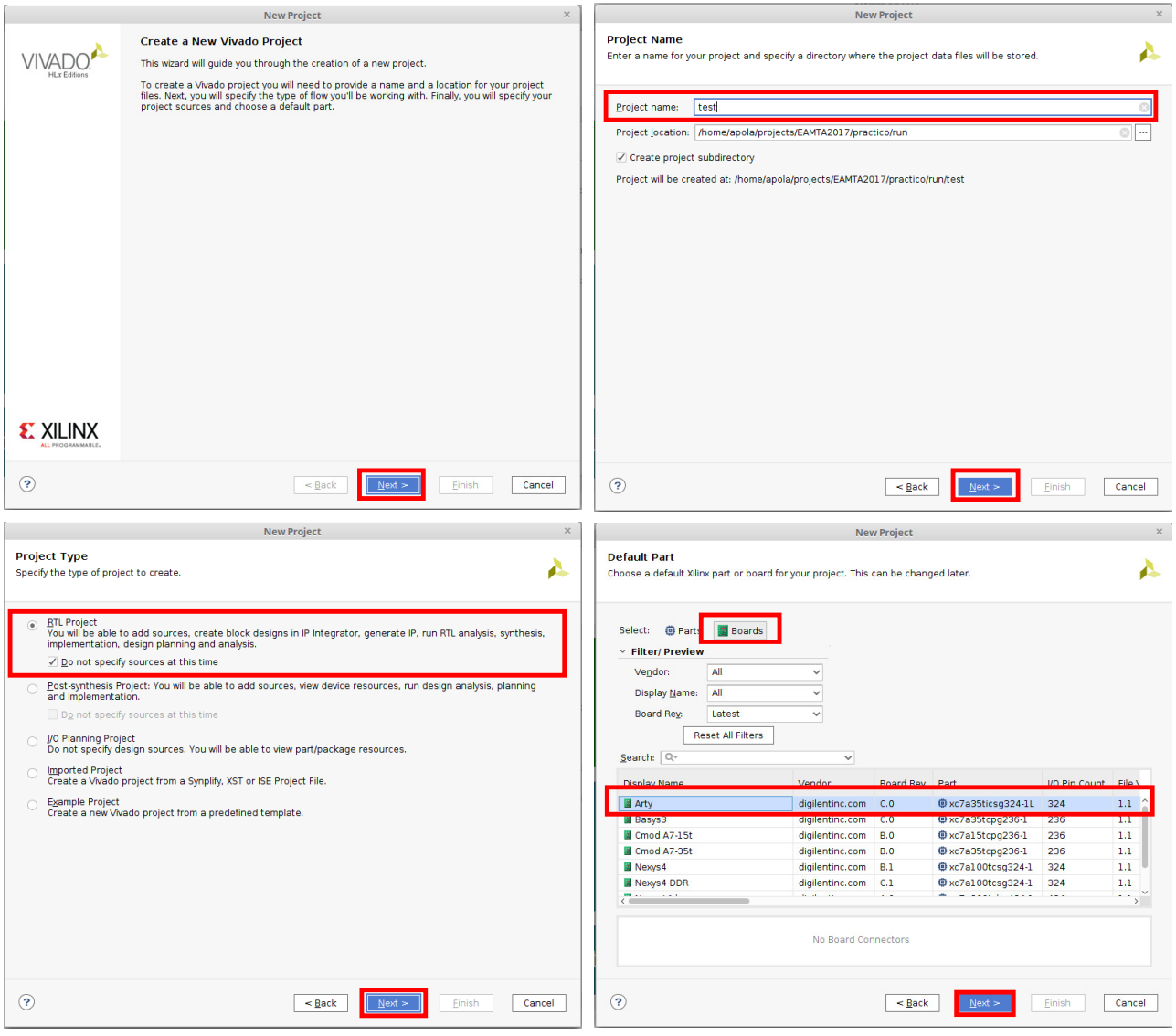

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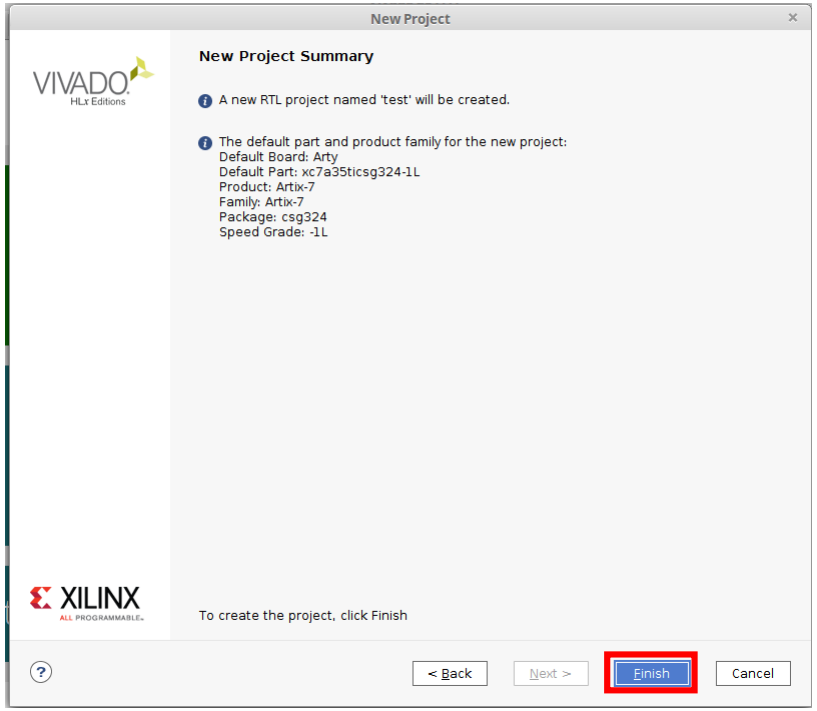

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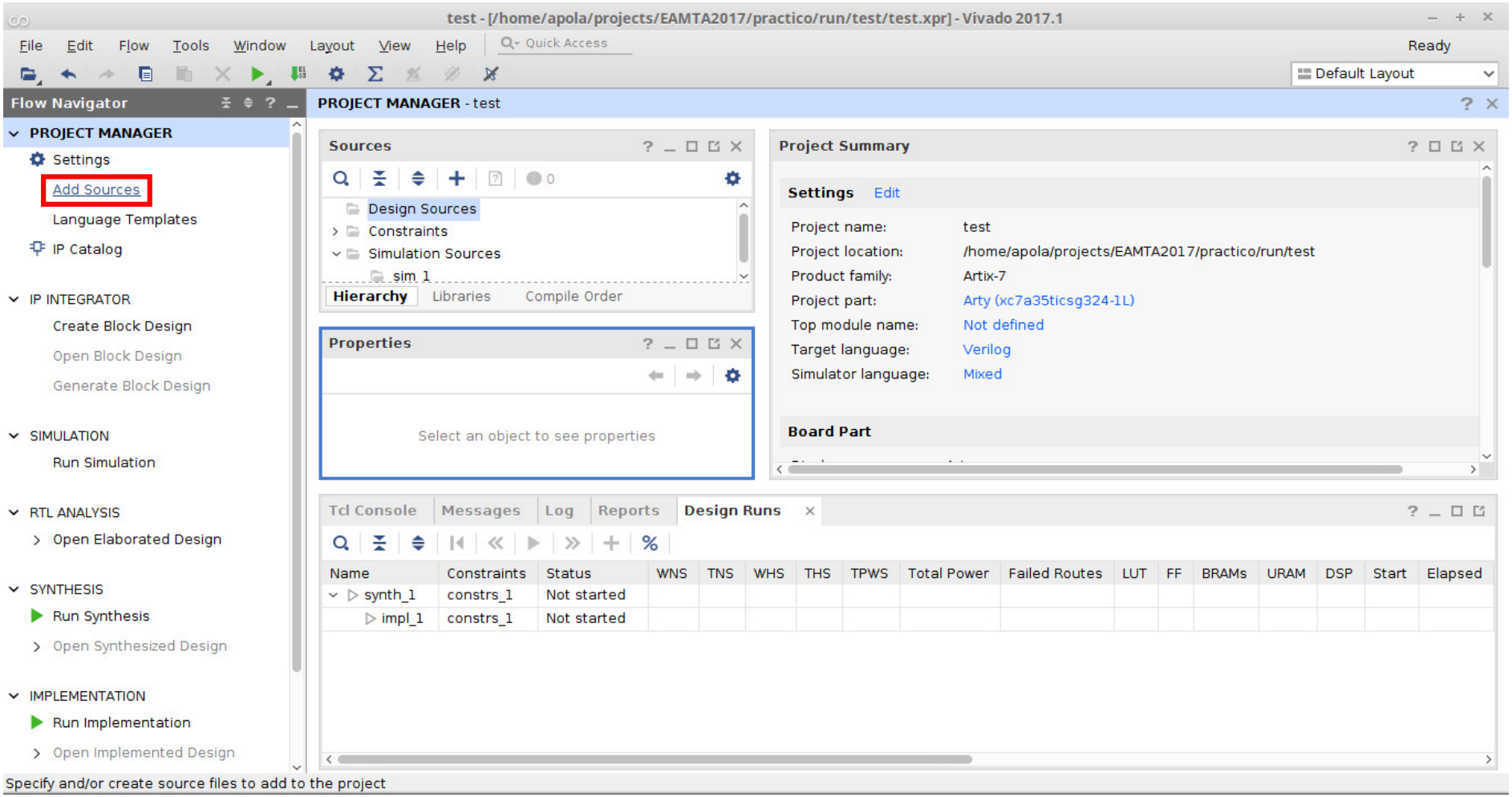

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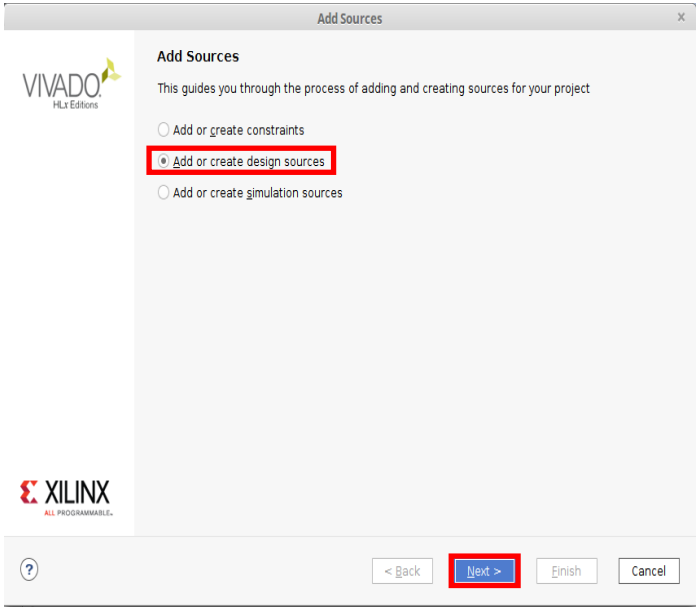

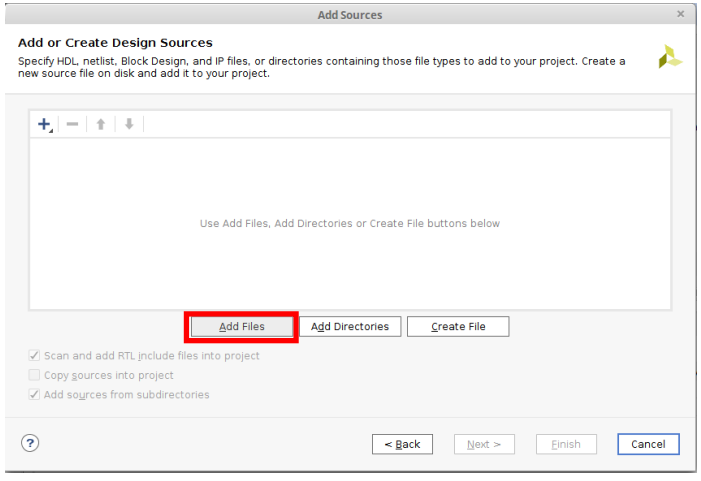

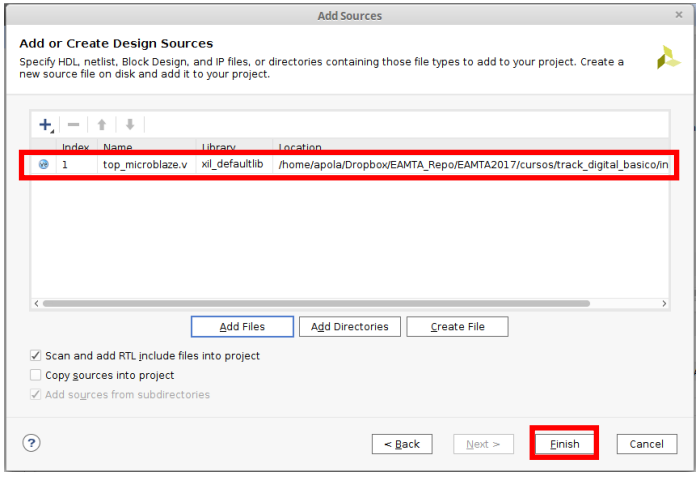

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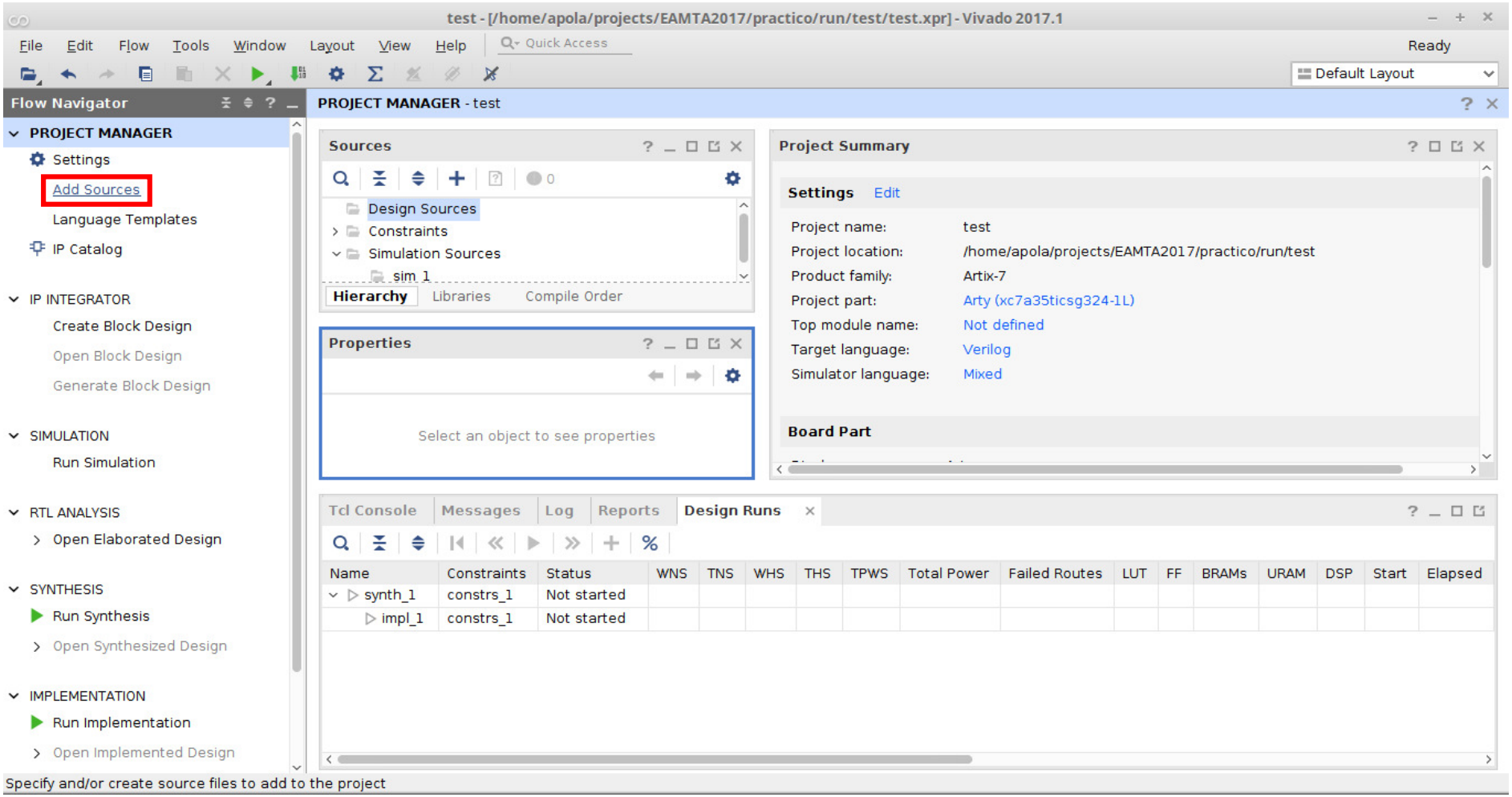

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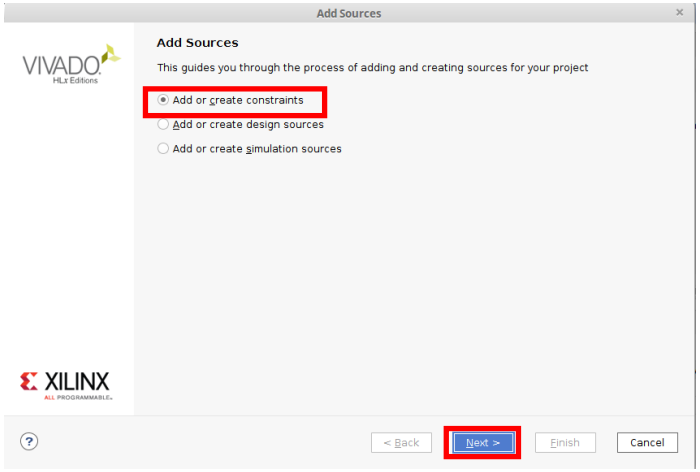

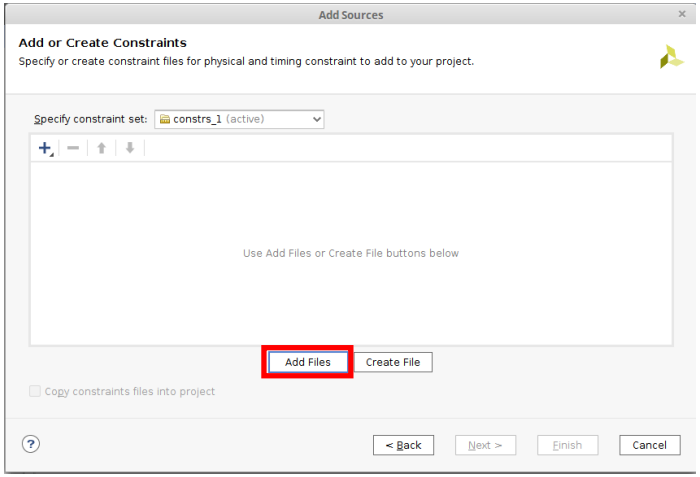

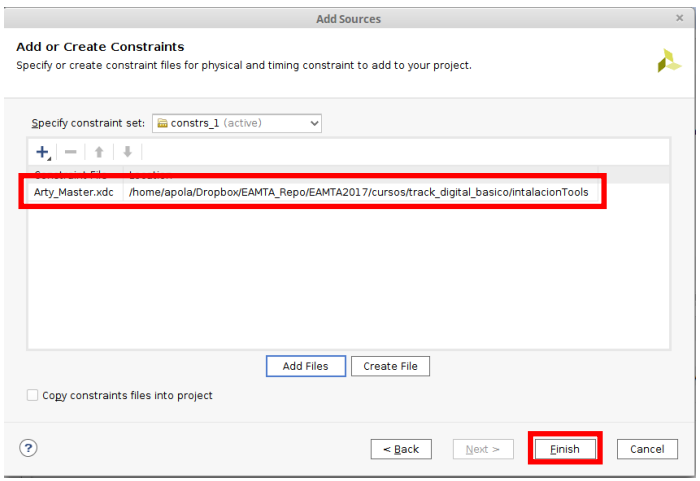

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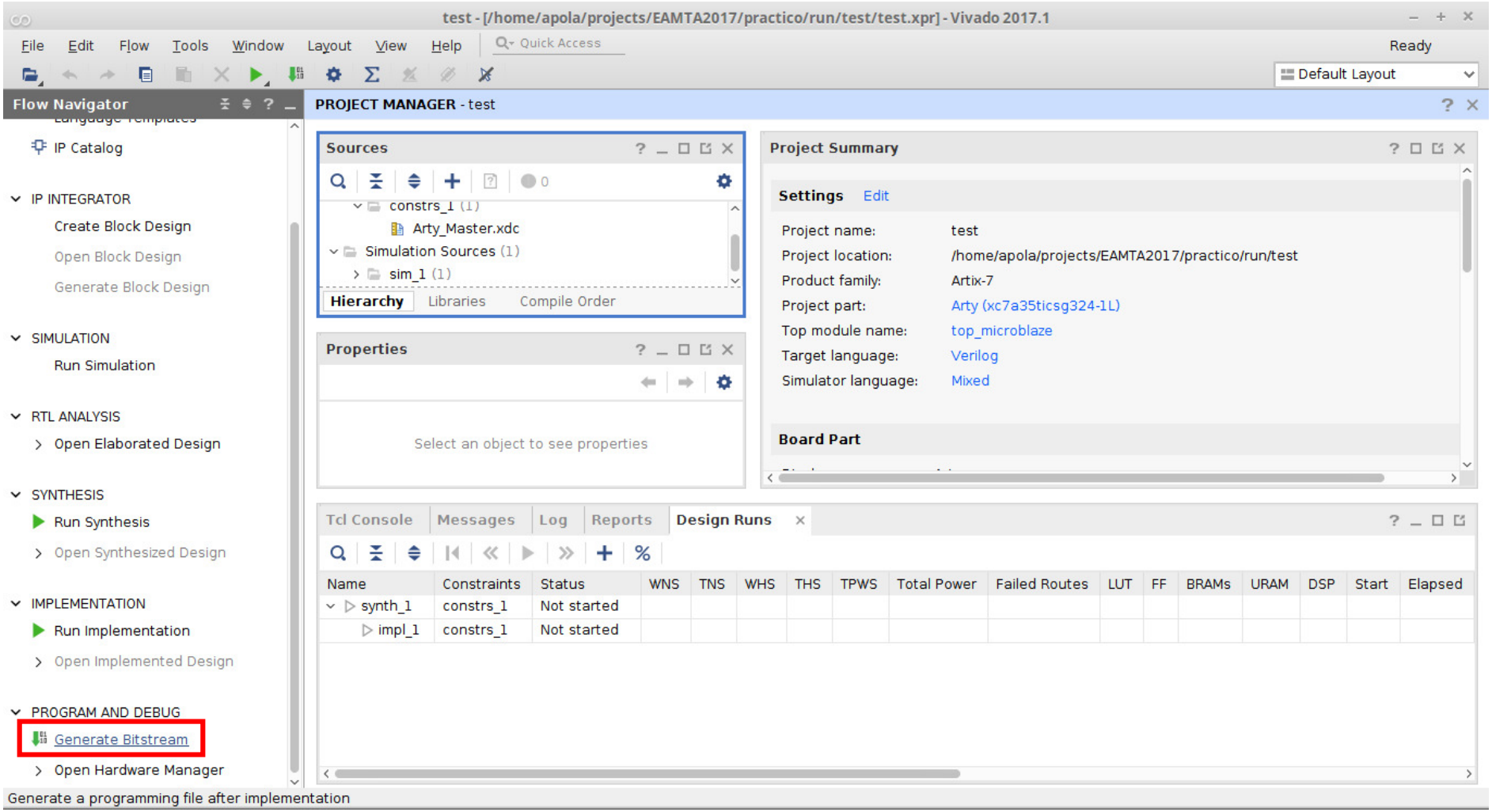

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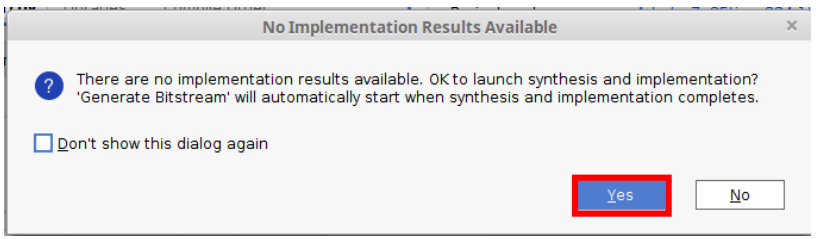

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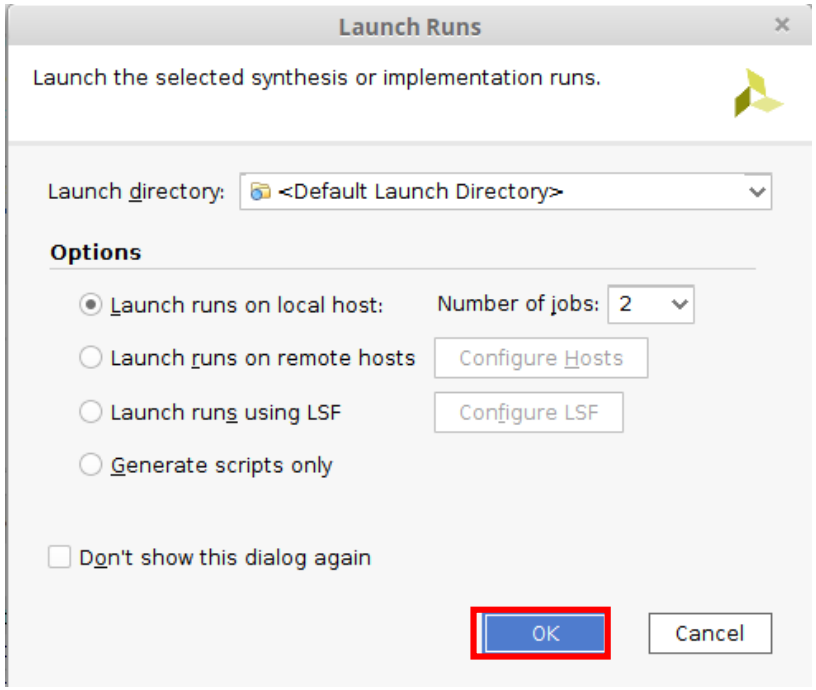

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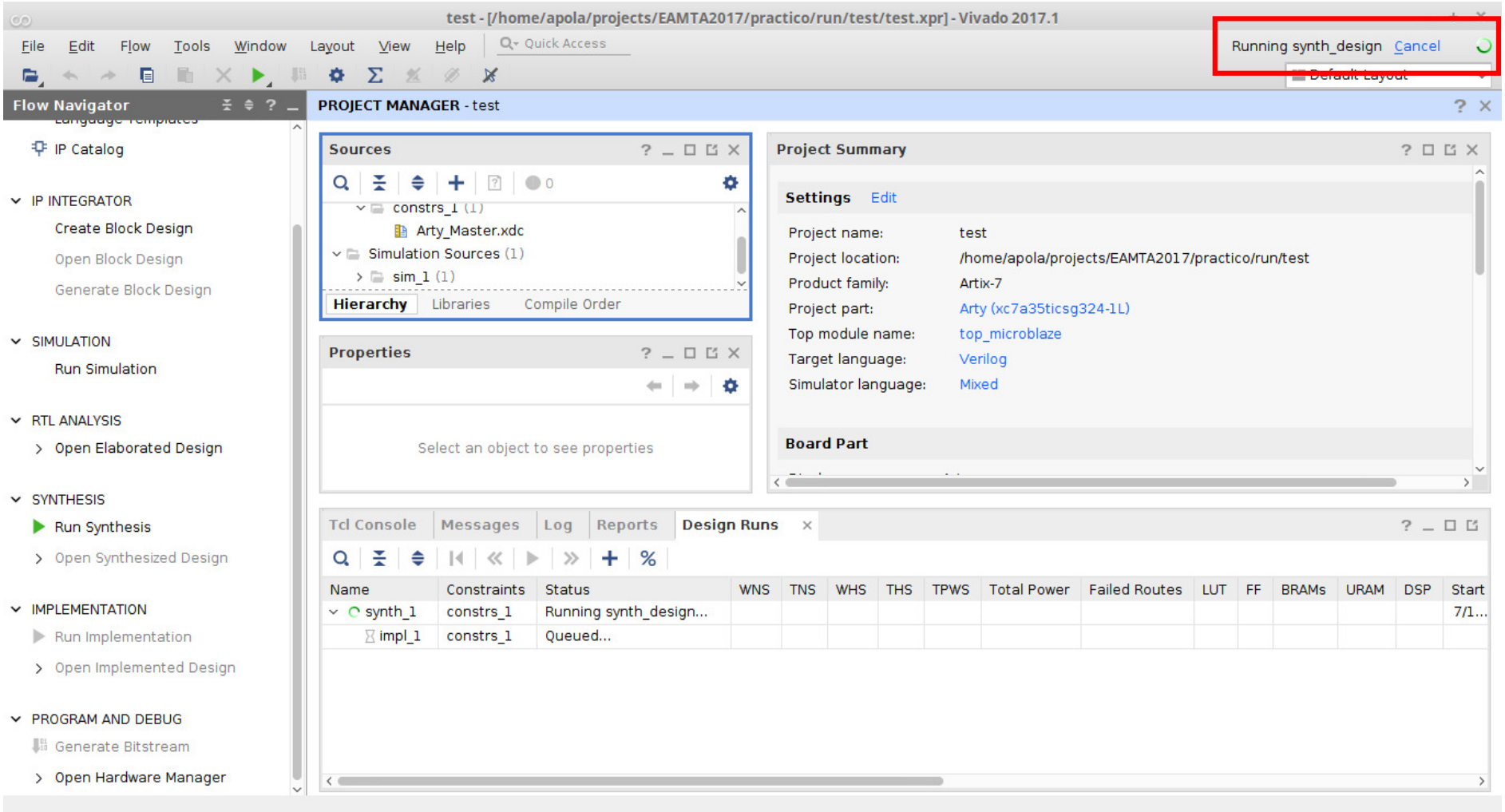

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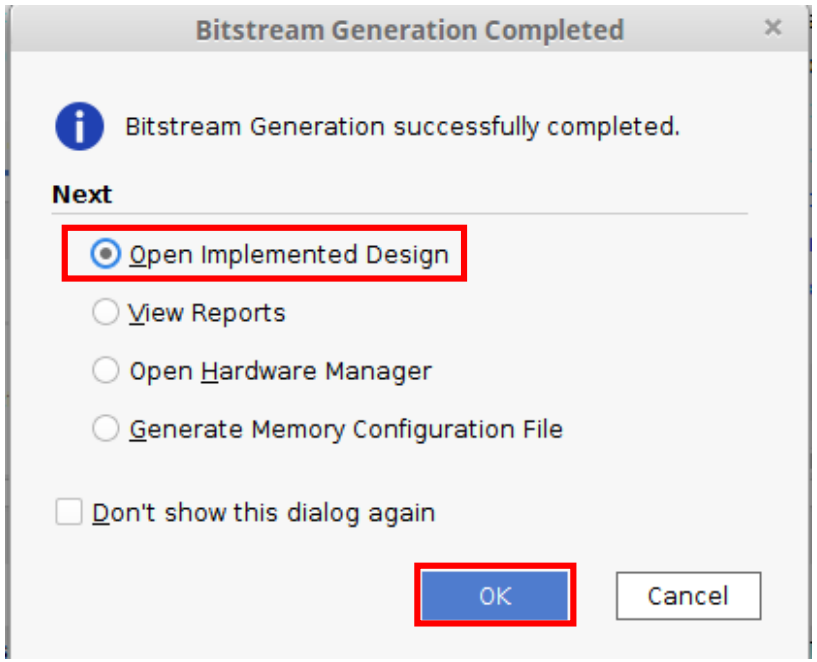

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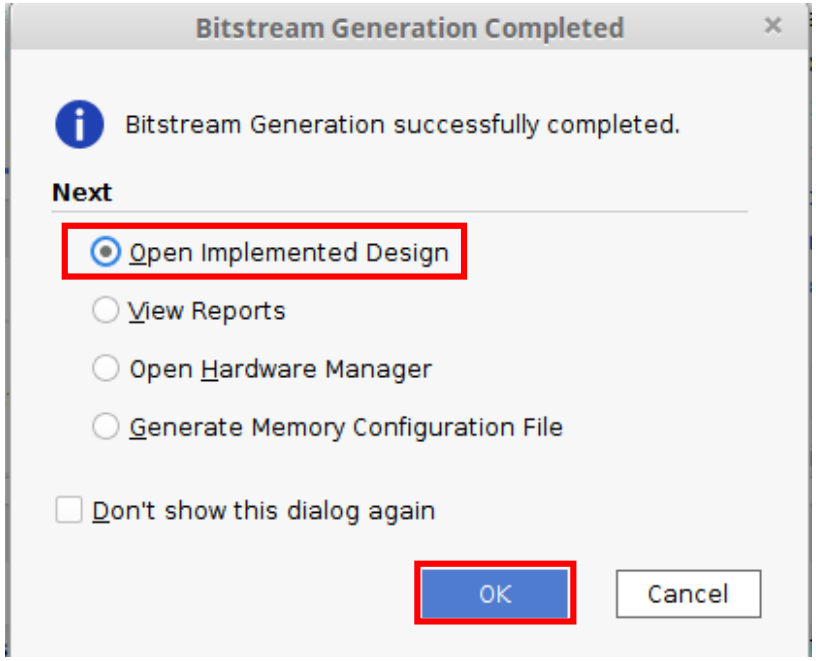

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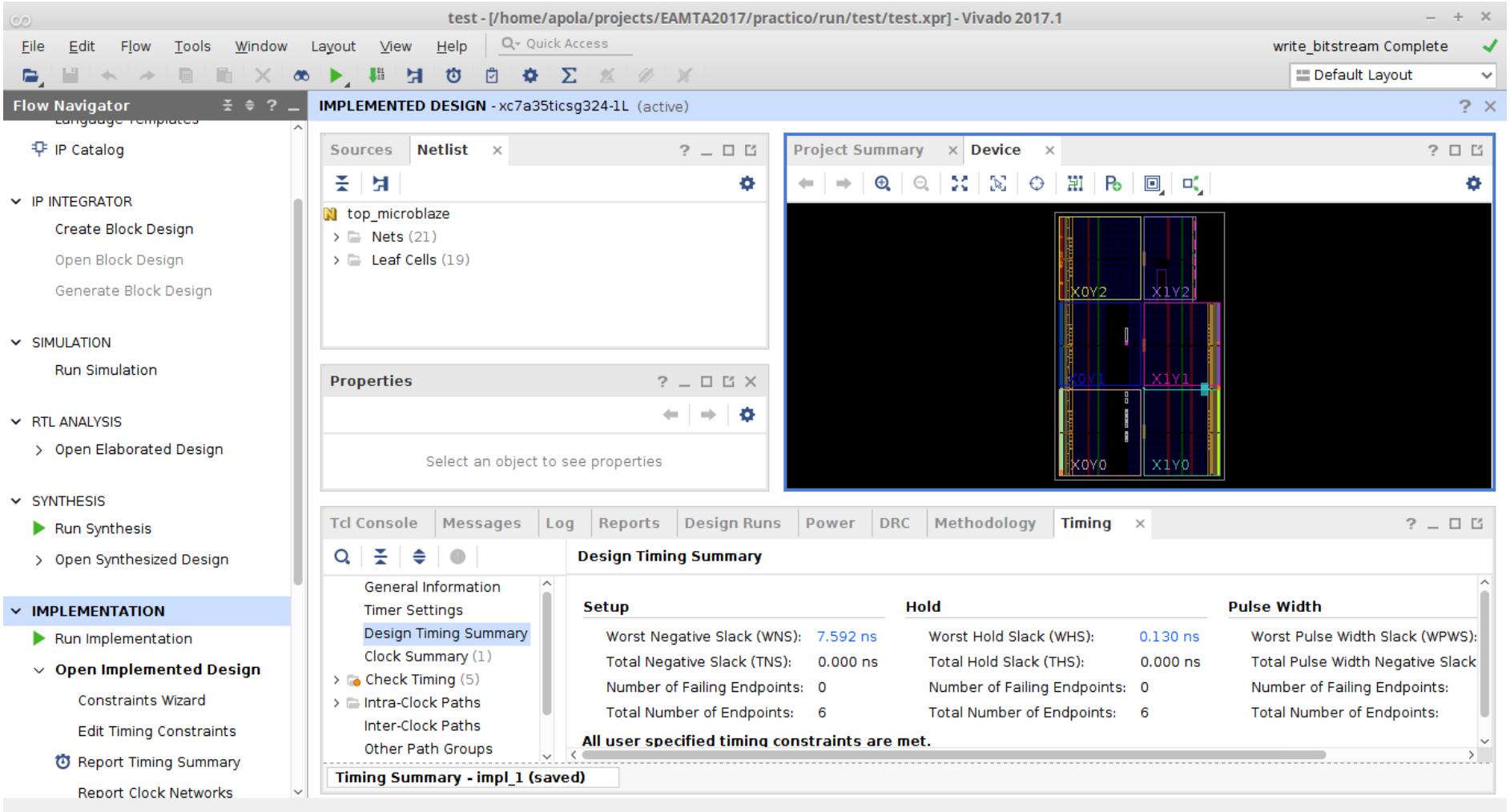

Preguntas

Muchas Gracias