Introduction to FPGA Programming

XV Seminar on Software for Nuclear,
Subnuclear and Applied Physics - Alghero (Italy)

UNIVERSITÀ DEGLI STUDI DI PERUGIA

27 May - 1 June, 2018

Mirko Mariotti

UNIVERSITÀ DEGLI STUDI DI PERUGIA

VM setup

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Became root using "su -" and infn2018 password.

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Became root using "su -" and infn2018 password.
- Install iverilog "yum install iverilog" (network connection needed)

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Became root using "su -" and infn2018 password.
- Install iverilog "yum install iverilog" (network connection needed)
- Install gtkwave with "yum install gtkwave" (network connection needed)

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Create 10 groups and find a suitable computer for each group.

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Create 10 groups and find a suitable computer for each group.
- Attach the vivado.vdi disk to the virtual machine.

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Create 10 groups and find a suitable computer for each group.
- Attach the vivado.vdi disk to the virtual machine.
- Launch the VM and mount the second disk.

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Create 10 groups and find a suitable computer for each group.
- Attach the vivado.vdi disk to the virtual machine.
- Launch the VM and mount the second disk.
- Install vivado

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Create 10 groups and find a suitable computer for each group.
- Attach the vivado.vdi disk to the virtual machine.
- Launch the VM and mount the second disk.
- Install vivado
- Install the cable drivers.

Introduction to FPGA Programming

UNIVERSITÀ DEGLI STUDI DI PERUGIA

- Create 10 groups and find a suitable computer for each group.
- Attach the vivado.vdi disk to the virtual machine.
- Launch the VM and mount the second disk.
- Install vivado
- Install the cable drivers.
- Test the cable drivers with a board.