



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

Dipartimento di Scienze Fisiche,
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6. HOWTO FPGA Tool

Installation

High Performance Computing [262-022]

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Vivado HLS bug (1)

→ *In fase di export di un acceleratore HLS potrebbe verificarsi il seguente errore:*

```
source run_ippack.tcl -notrace
bad lexical cast: source type value could not be interpreted as
target
  while executing
    "rdi::set_property core_revision ##### {component
component_1}"
    invoked from within
    "set_property core_revision $Revision $core"
      (file "run_ippack.tcl" line 1112)
...
ERROR: [IMPL 213-28] Failed to generate IP.
INFO: [HLS 200-111] Finished Command export_design
```

Vivado HLS bug (2)

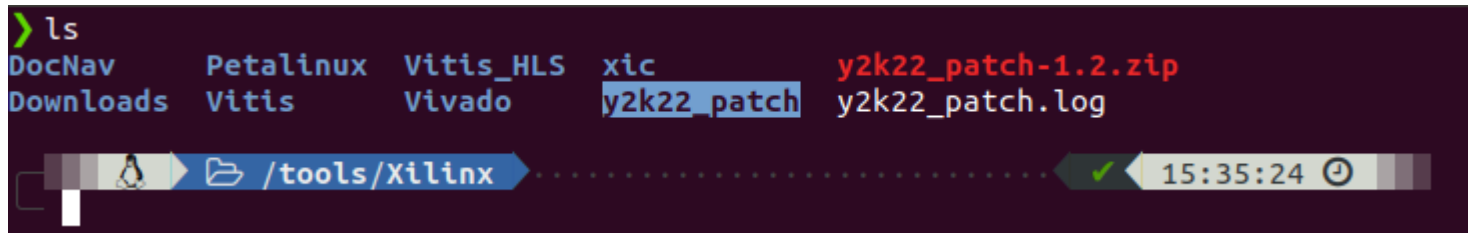
→ *Installare la patch riportata al seguente link:*

https://support.xilinx.com/s/article/76960?language=en_US

→ *Scaricare e estrarre il file y2k22_patch-1.2.zip;*

→ *Copiare la cartella estratta nella directory di installazione di vivado, es (/tools/Xilinx):*

```
> ls
DocNav      Petalinux  Vitis_HLS  xic        y2k22_patch-1.2.zip
Downloads   Vitis      Vivado     y2k22_patch y2k22_patch.log
```



The screenshot shows a terminal window with a dark background. The command 'ls' has been executed, listing the contents of the current directory. The files listed are DocNav, Downloads, Petalinux, Vitis, Vitis_HLS, Vivado, xic, y2k22_patch, y2k22_patch-1.2.zip, and y2k22_patch.log. The file 'y2k22_patch' is highlighted with a blue selection bar. Below the terminal output, there is a navigation bar with a folder icon and the text '/tools/Xilinx'. To the right of the navigation bar, there is a green checkmark icon and a timestamp '15:35:24' followed by a refresh icon.

Vivado HLS bug (3)

→ *Installare la patch riportata al seguente link:*

```
$ export LD_LIBRARY_PATH=$PWD/Vivado/2020.1/tps/lnx64/python-2.7.16/lib
```

```
$ Vivado/2020.1/tps/lnx64/python-2.7.16/bin/python2.7 y2k22_patch/patch.py
```

→ *Se la patch è stata installata correttamente l'output dev'essere analogo al seguente:*

```
[2022-05-31] INFO: This script (version: 1.2) patches Xilinx Tools for HLS Y2k22 bug for the following release:  
                2014.*, 2015.*, 2016.*, 2017.*, 2018.*, 2019.*, 2020.* and 2021.*
```

```
[2022-05-31] UPDATE: /tools/Xilinx/Vivado/2020.1/common/scripts
```

```
[2022-05-31] COPY: /tools/Xilinx/y2k22_patch/automg_patch_20220104.tcl to /tools/Xilinx/Vivado/2020.1/common/scripts/automg_patch_20220104.tcl
```

```
[2022-05-31] UPDATE: /tools/Xilinx/Vivado/2020.2/common/scripts
```

```
[2022-05-31] COPY: /tools/Xilinx/y2k22_patch/automg_patch_20220104.tcl to /tools/Xilinx/Vivado/2020.2/common/scripts/automg_patch_20220104.tcl
```

```
[2022-05-31] UPDATE: /tools/Xilinx/Vitis/2020.1/common/scripts
```

```
[2022-05-31] COPY: /tools/Xilinx/y2k22_patch/automg_patch_20220104.tcl to /tools/Xilinx/Vitis/2020.1/common/scripts/automg_patch_20220104.tcl
```

```
[2022-05-31] UPDATE: /tools/Xilinx/Vitis_HLS/2020.2/common/scripts
```

```
[2022-05-31] COPY: /tools/Xilinx/y2k22_patch/automg_patch_20220104.tcl to /tools/Xilinx/Vitis_HLS/2020.2/common/scripts/automg_patch_20220104.tcl
```

```
[2022-05-31] UPDATE: /tools/Xilinx/Vitis_HLS/2021.2/common/scripts
```

```
[2022-05-31] COPY: /tools/Xilinx/y2k22_patch/automg_patch_20220104.tcl to /tools/Xilinx/Vitis_HLS/2021.2/common/scripts/automg_patch_20220104.tcl
```