
Arcadia DAQ requirements:

- hardware:

- PC:
 - one Gbit Ethernet port (or USB-to-Gbit Ethernet adapter)
 - one free USB port
- KC705 board
- cables:
 - one USB-micro cable (included in the KC705 box)
 - one Ethernet cable (included in the KC705 box)
 - 2 Firefly cables

- software:

- operating system:
 - CentOS Stream 8
 - Fedora 31 or newer
 - Ubuntu
- package list:
- for CentOS:
 - `dnf install epel-release python39-devel tcl tcl-devel tk tk-devel libjpeg-devel gcc git make g++ boost boost-devel pugixml-devel`
 - `pip-3.9 install matplotlib numpy tqdm scipy tabulate pybind11`
- IPbus client software: <https://ipbus.web.cern.ch/doc/user/html/software/installation.html>
 - `curl`

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https://ipbus.web.cern.ch/doc/user/html/_downloads/ipbus-sw.centos8.x86_64.repo -o
/etc/yum.repos.d/ipbus-sw.repo
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 - `yum-config-manager --enable powertools`
 - `yum groupinstall uhal controlhub`
- Arcadia DAQ software:
 - `git clone https://baltig.infn.it/arcadia/arcadia-daq-sw.git`
 - `cd arcadia-daq-sw/work`
 - `make cxxopts`
 - `make -C bin`
- For programming the FPGA:
 - `vivado` (or `vivado_lab`) 2020.2
 - or
 - `dnf copr enable mobicarte/openFPGALoader`
 - `dnf install openFPGALoader`
 - (after compiling, run: `openFPGALoader -b kc705 firmware/top.bit`)

For virtual machines, it is important they can access both Ethernet and USB ports