

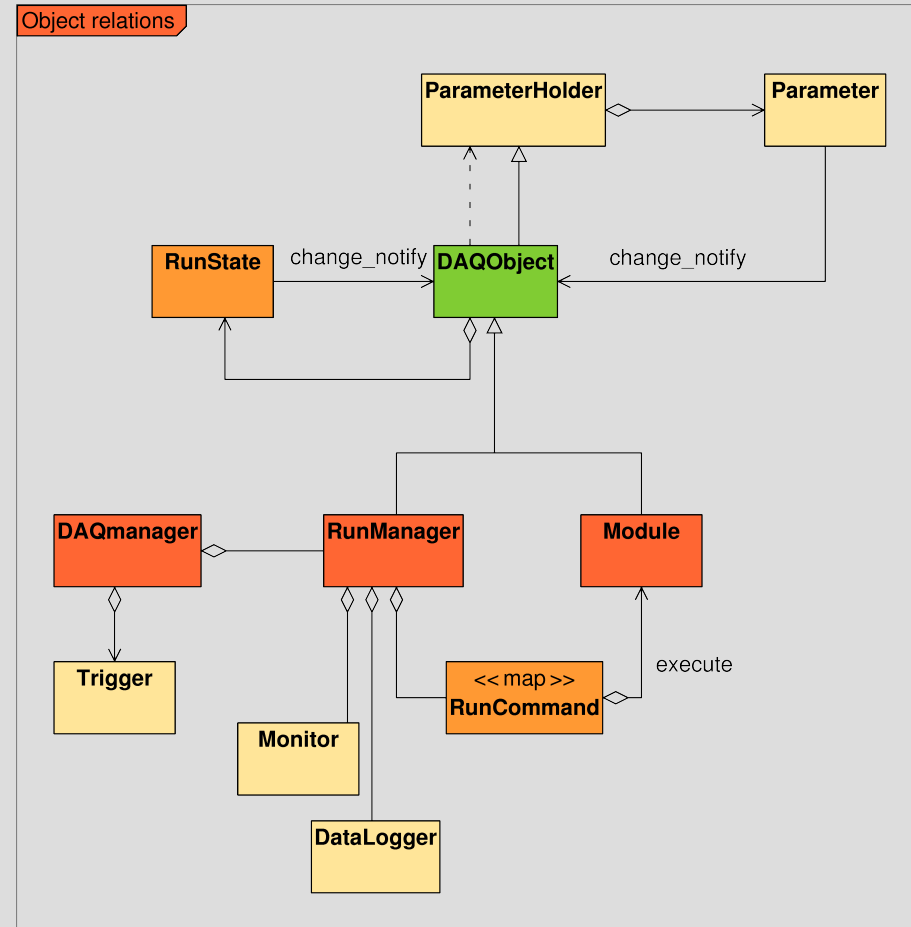
# DAQ++: A C++ Data Acquisition Software Framework

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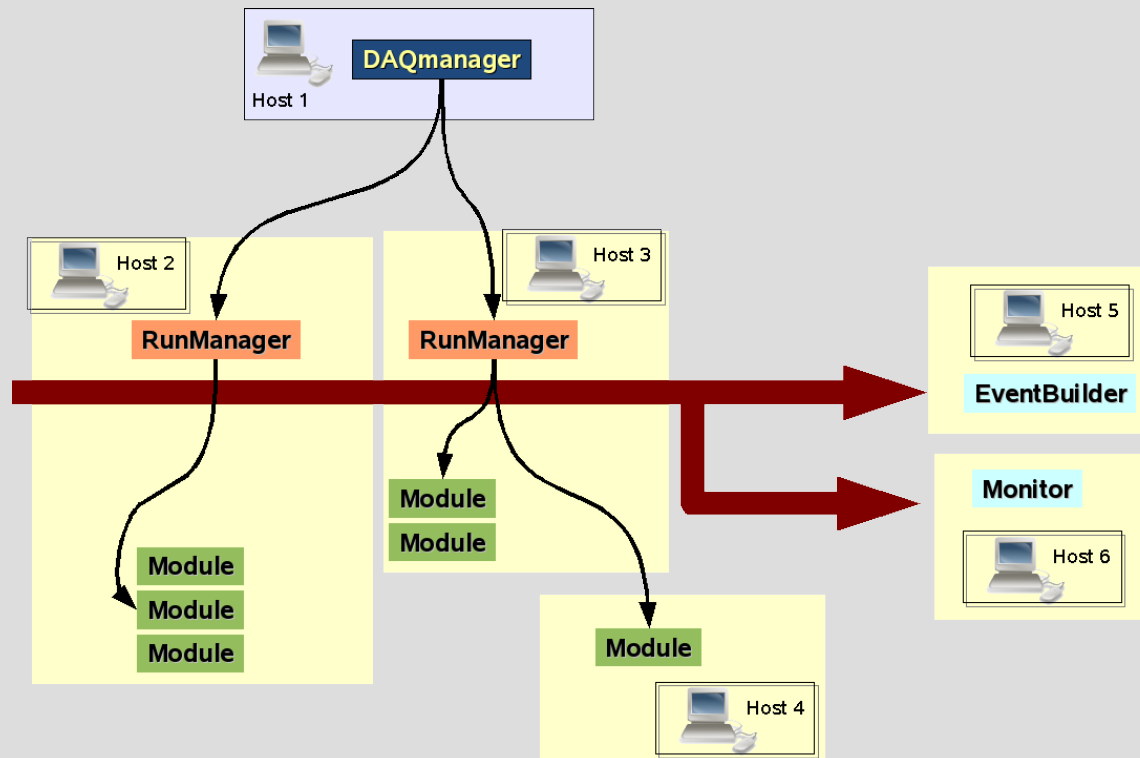
# DAQ++ Objects

- ✓ DAQ++ is a C++ framework to develop Data Acquisition software
  - Active objects derive from **DAQObject**, which stores the DAQ state and a set of **Parameter** objects that notify any change
  - **RunManager** objects control a set of **Modules**, build the data stream and allow to monitor it. They also define the type of run:
    - ↳ Normal data, pedestals, parameter scans, ...
  - Modules are data producers and react to commands sent by the RunManager through the **RunCommand**.
  - Module and RunManager are abstract classes defining the interface for such objects
- ✓ The **DAQmanager** controls the active RunManagers by sending them DAQ commands



# DAQ++ ports and interfaces

- ✓ There is a **Python** port.
- ✓ There is a **CORBA** (PyOrbit) implementation that allows to setup an acquisition environment among many nodes.



# VMEdaq: an application

- ✓ VMEdaq is a Gtk based GUI front-end for DAQ++
- ✓ It allows to dynamically load different implementations of Module and RunManager objects
- ✓ It implements the Monitor and DataLogger objects to *spy* and save the data.

