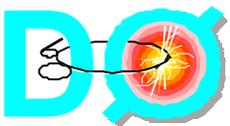
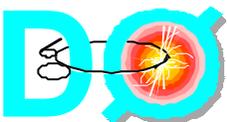
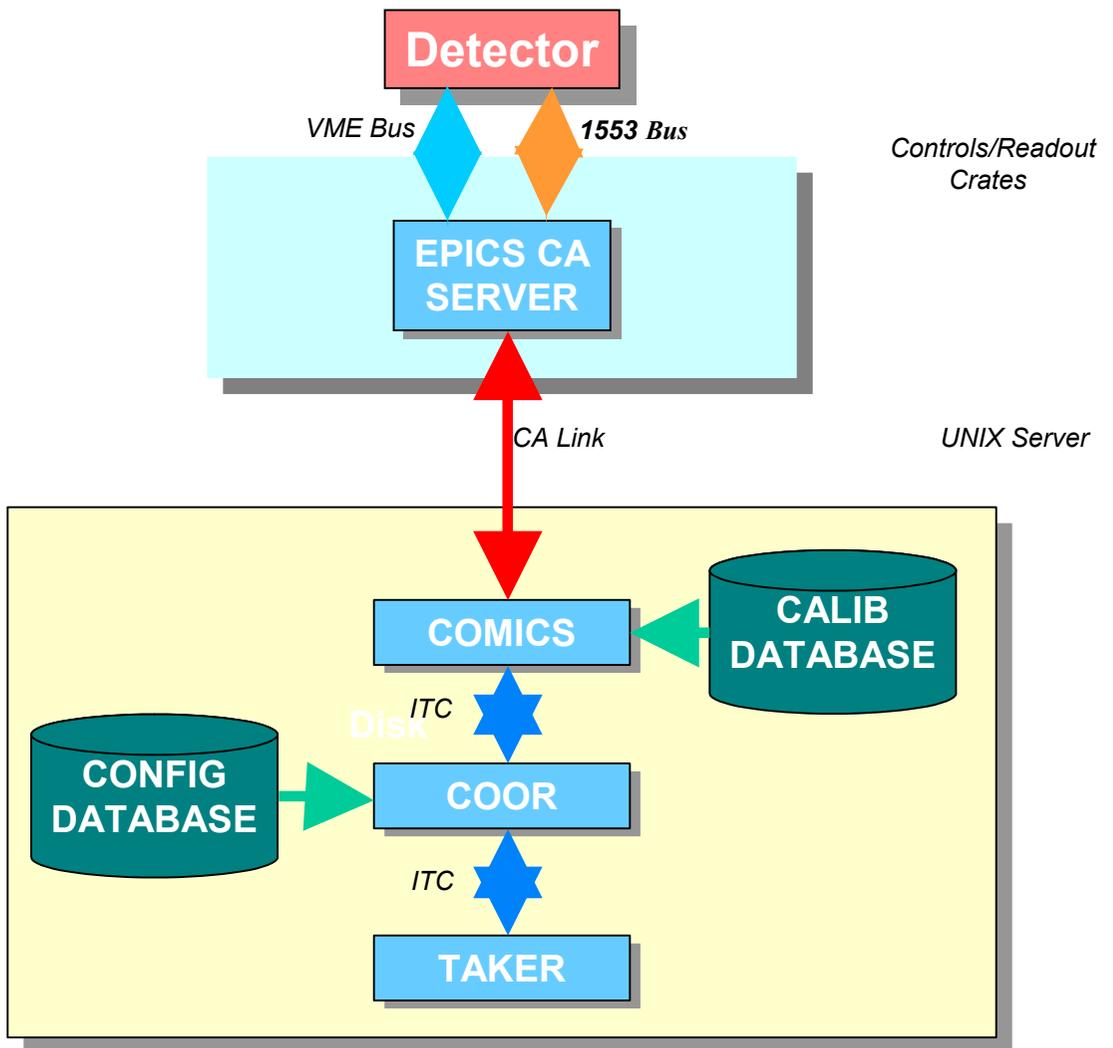

DØ Detector Download

and the STT

Bill Lee

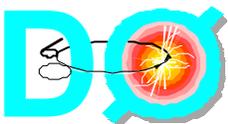


Download Overview



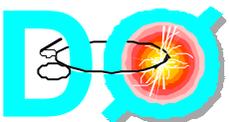
Download System Components

- **TAKER**
 - + **Operator interface for COOR**
- **COOR**
 - + **Run state manager**
- **COMICS**
 - + **Detector configuration manager**
- **EPICS**
 - + **Distributed control system**
- **Detector**
 - + **In our case STT cards**



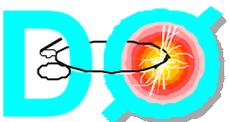
COMICS

- **Manages the configuration of the detector**
- **Coded in the Python language**
- **Receives sector load requests from COOR**
 - + **A sector is the smallest detector component managed by COOR**
 - + **Sectors may be shared by different runs if the sector configurations match**

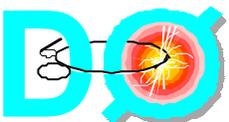
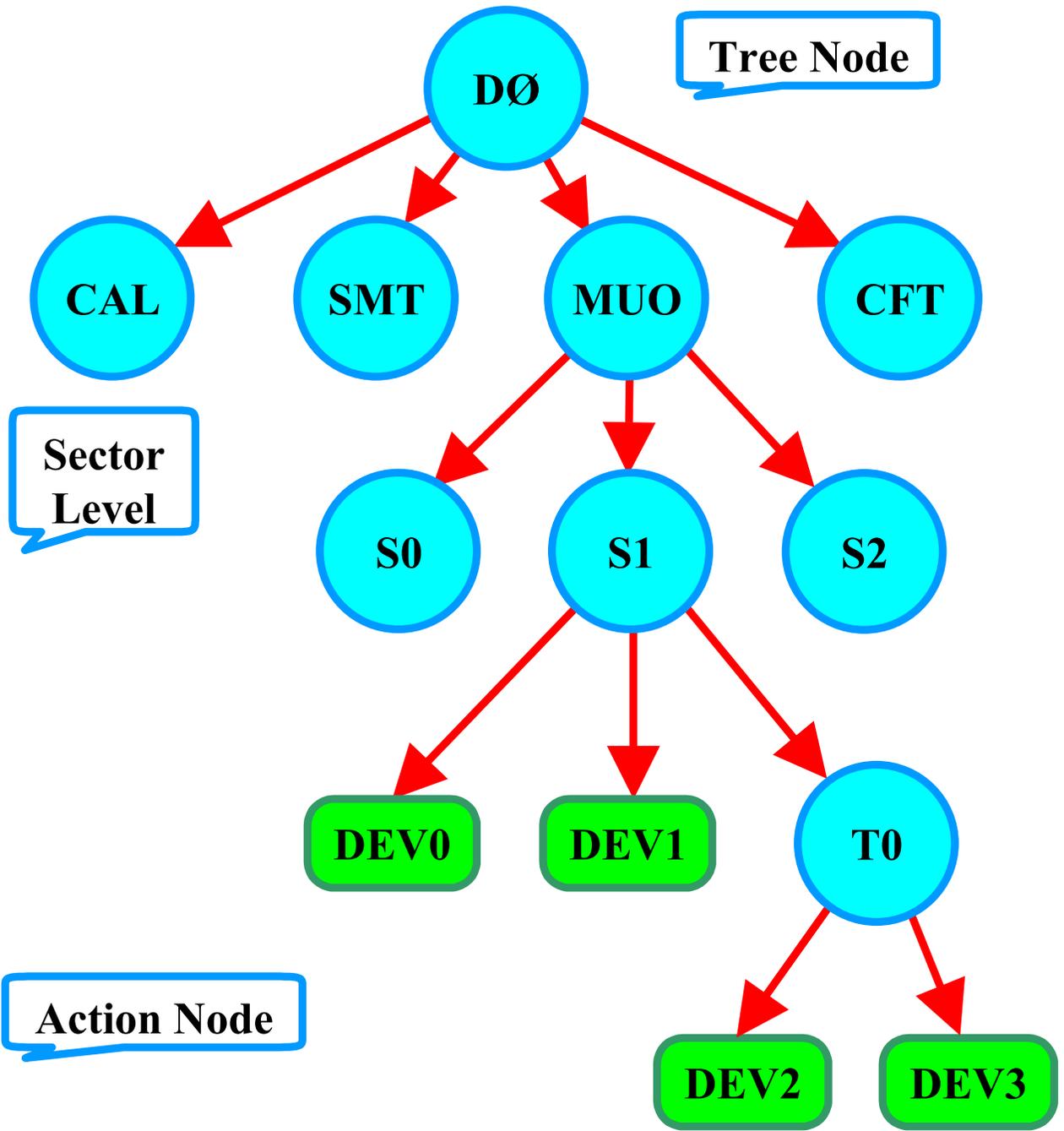


COMICS

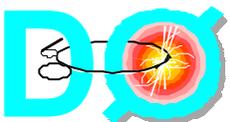
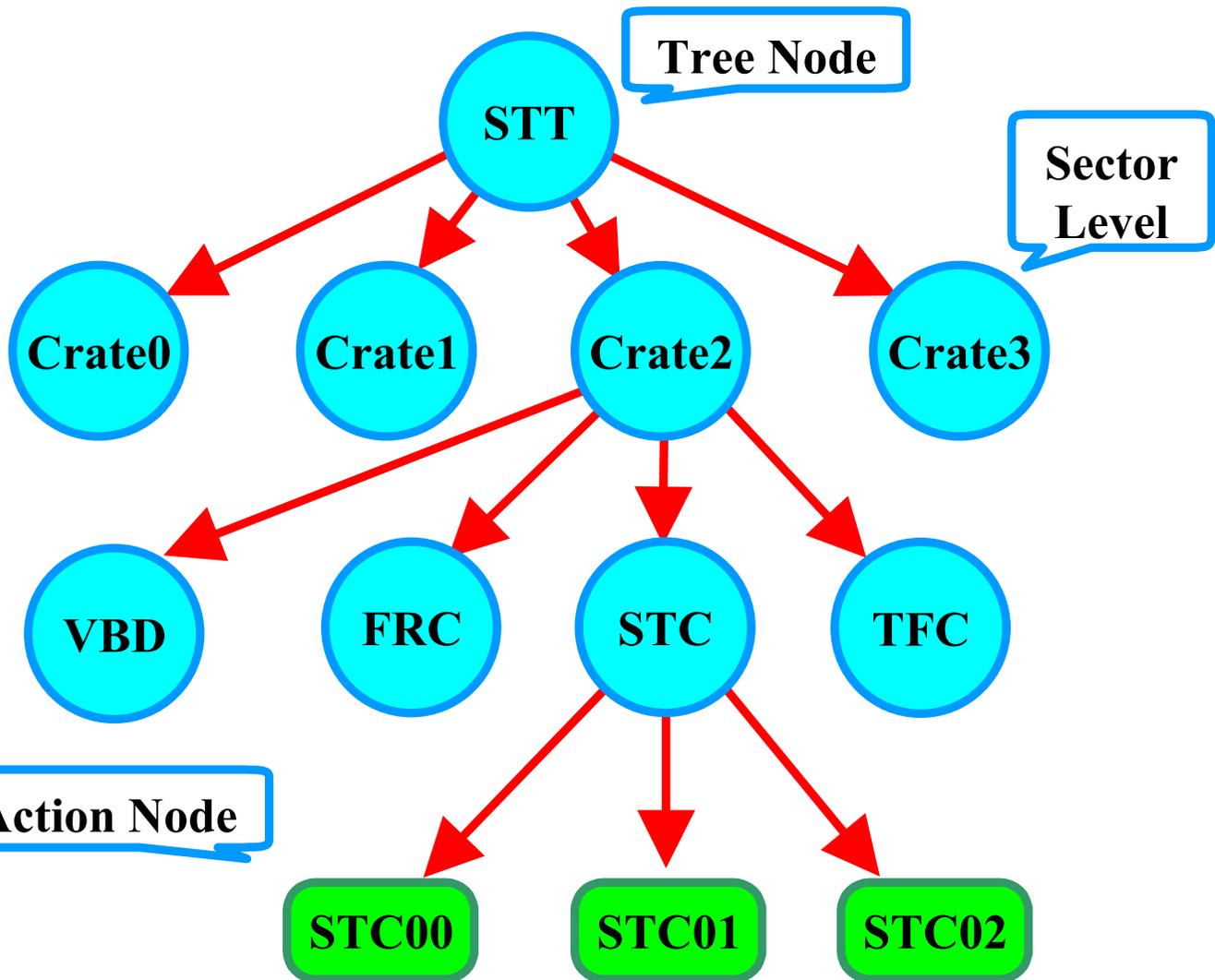
- **COMICS may be activated independently for configuring detector components**
- **Download map is a directed graph (tree)**
 - + **Tree node (intermediate)**
 - + **Action node (leaf)**
- **COOR run parameters**
 - + **Encapsulated in a ComicsRunParams object**
 - + **Passed to all nodes**



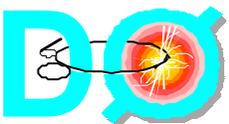
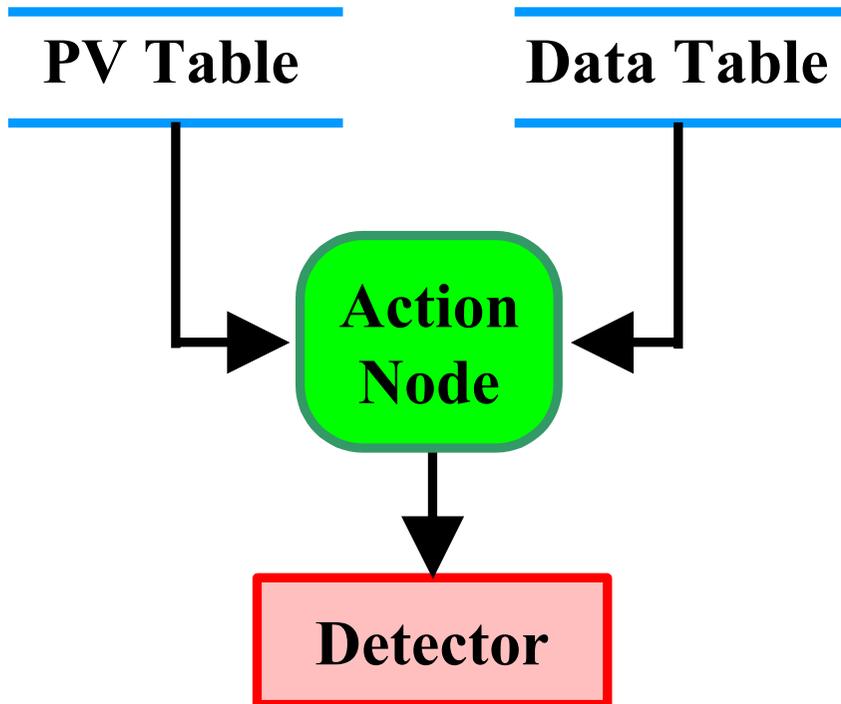
Download Tree Structure



STT Download Tree Structure

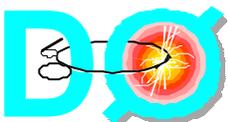


COMICS Action Node



Sources for the Action Node Data Table

- **Action node class variables**
 - + Assigned at coding time
 - + Common to all instances of the class
- **Action node instantiation variables**
 - + Assigned at tree-build time
 - + Unique to instance of class
- **Input file (pickle-format)**
 - + Assigned at calibration time
- **Run parameters**
 - + Assigned at run time



ORACLE Database Extraction

