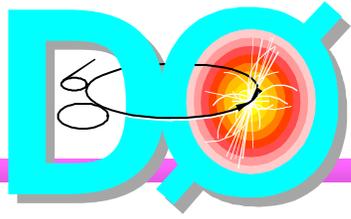


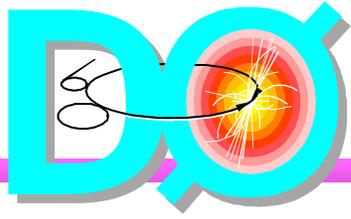
Online Software Configuration

**Gordon Watts, Scott Snyder,
Geoff Savage, Gennady Briskin**



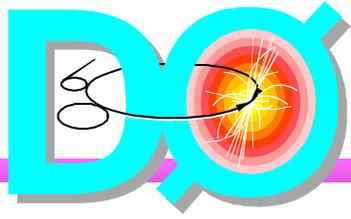
Configuration Goals

- **Run time version control for online applications**
- **Shell independence**
- **Simple for shifters**
- **Flexible for experts**
- **Convenient for application developers**



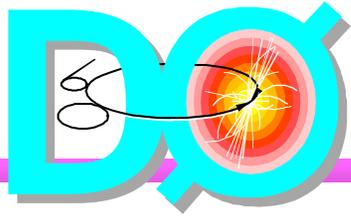
Configuration Solution

- **UNIX Product Support (UPS)**
 - ◆ Multiple versions available concurrently
 - ◆ Back out completely and assuredly
 - ◆ Products with versions
 - ◆ Shell independent environment definition
- **Shell scripts if required**
 - ◆ Bourne shell



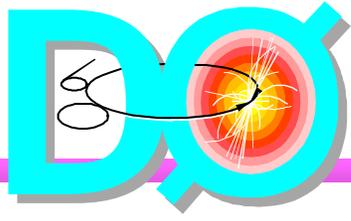
Shifter

- Restarting an application automatically starts the current version
- Single command starts application
 - ◆ **coor, ses, dl, dd, ...**
 - ▲ **setup coor**
 - ▲ **coor**
- One command starting of the online DAQ system



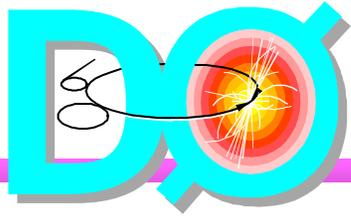
Expert

- **Select version**
 - ◆ setup application *<ups version>*
 - ◆ start application
- **Chain starting**
 - ◆ One application starts other applications
 - ◆ Version passing to other applications
 - ▲ Command line
 - ▲ Environment variables



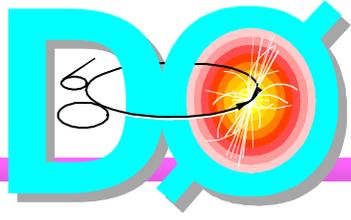
Product Developer

- **Configuration (table) file**
 - ◆ Environment variables
 - ◆ Executable/Script location
 - ◆ Support files locations
 - ▲ Log files
 - ▲ Data files
 - ◆ Commands to execute
- **Declaration script**



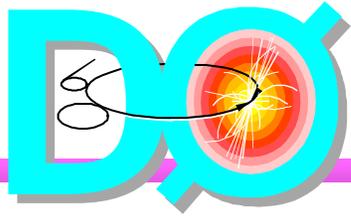
Development

- **Online release**
 - ◆ Online applications must be products
 - ◆ Which products included?
- **Product table files**
 - ◆ **Environment variables**
 - ▲ Command location?
 - ▲ Executable location?
 - ▲ Support file location?
- **Product declaration script**



More Development

- **Chaining programs**
 - ◆ **Chaining configuration?**
 - ◆ **Version passing**
 - ▲ **Command line?**
 - ▲ **Environment variables?**



Actions

- If you have a product that should be included in the online release send me email --- savage@fnal.gov
- Begin development with some simple tests