

# JIM(GRID) Conversion Plans for D0 farm

## ■ Long Term Goal:

- Convert entire D0 farm production to non-experiment specific, non-process specific operation.

## ■ Constraint:

- We will have \*NO\* cycles to spare when the accelerator comes up from shutdown.
- Must be able to continue operation at full (80%+) efficiency during the changeover.
- New system must coexist with old setup during transition.

## ■ Timescale:

- Will do as much as possible before end of shutdown.
- Will slowly add workers and correct chokepoints as they are discovered.
- Don't expect full cutover until next summer.

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## ■ Issues:

- Note: Not meant to be negative criticism of what has been done, rather just some issues that need to be addressed before full use can be made of the system.

## ■ Need clean separation of power.

- JIM, Runjob, rte all have overlapping functionalities in some places.
  - These all need to be cleanly separated.
- Installation must also be independent
  - Shouldn't have specify CDF vs D0 (wrong)
  - Shouldn't have to specify # MC events (wrong\*\*2)

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## ■ Issues:

- Looks like significant changes are needed to make system scalable to large installations.
- Design Principle:
  - Any functionality that handles user data **MUST** be easily distributable across multiple nodes.
  - In this context the executable tarball is also ‘user data’
- Can violate this rule, but only at the expense of front-ending the system with Origin class machines.
  - Tattered remnants of D0mino are still around...