

**Runjob
Status and Plans
Maintainer's Perspective
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Runjob Status Meeting
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This report available under URL
<http://fcdhome.fnal.gov/usr/wicklund/Runjob.ps>

General Plan

Collect up code common between CMS MCRunJob and D0 MCRunJob, as CMS and D0 agree. Also, collect up documentation as it is written. As time goes by, more and more code is likely to become common. I do much of the collection. CMS and D0 also have checked in significant amounts of code directly themselves.

Status of Code and Documentation

Kept in Fermilab Computing Division cvs repository. To browse the code, please see URL:

<http://cdcvs.fnal.gov/cgi-bin/public-cvs/cvsweb-public.cgi/Shahkar/Python>

Features

- Metadata handling and dependency tracking
- Workflow description
- Framework operation
- Script driven
- CMS version is Grid Enabled (both MOP and EDG)

Main Pieces of Code

- `BaseLinker.py`
- `BaseConfigurator.py`
- `BaseConfiguratorFactory.py`
- `BaseFramework.py`
- `BaseParser.py`
- `LogMgr.py` (Logger)

Plus other pieces of helper code.

I do some light coding, fixing bugs, adding small features, logger command line options, and so on, but most of the code comes from CMS and D0.

Origins of Code can be traced back to:

D0

BaseLinker.py

LogMgr.py (Logger)

Joint Effort

CommandTree.py

CMS

BaseConfigurator.py

BaseFramework.py

BaseParser.py

Internal Testing

Unit Tests

I've written "Unit Test" programs for each of the five main "Base" pieces of code. These tests run successfully. This verifies the most basic things about these programs.

Please see URL:

<http://cdcvs.fnal.gov/cgi-bin/public-cvs/cvsweb-public.cgi/Shahkar/Test>

Stand Alone Hello World Test

I've helped to get the stand-alone "Hello World" program running. It runs successfully. This verifies that much of the system works.

External Testing

Tests in CMS

Jerry will talk about the tests in CMS. I did an initial pass at this, pulling out the common pieces and getting the CMS “Hello World” example to run using this reduced CMS code **plus** the common Runjob code.

Test in D0

Dave Evans did a similar basic test for D0.

Future

I would like to set up an even fuller test, something which generates a full set of scripts suitable for running on a GRID system.

Distribution

RPM Distribution

A Linux RPM distribution is available, at

<http://fcdfhome.fnal.gov/usr/wicklund/Shahkar-0.2-1.i386.rpm>

UPD Distribution

We are planning to make a UPD distribution for D0.

Future

CMS Release

CMS will be making a software release in the next two weeks. This release, or the next release two weeks later, is likely to include the common Runjob software. Jerry will say more about this.

UPD Distribution

We plan to make a UPD release of the common Runjob code for D0.

More Common Code

We plan to add more common code as CMS and D0 agree on more code.