



New Rules for Development on AMI

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New Procedures for AMI Deliveries



- Overview
- New Rules for input data location
- New Environment Variables
- How Do I Set the New Environment Variables?
- Special Case Considerations
- How Do I Set the Environment Variables for CM Testing?



Overview



- Who can I ask for help?
 - Tammy Ayers (CM)
 - Denise Cooper (Instrument & CERES Systems Lead)
 - Thomas Grepiotis (CERESlib)
 - Nelson Hillyer (Perl_Lib)



New Rules for Input Data Location



- Subsystem data directory structure must follow the ASDC DPO directory structure.
- If your input is created by a PGE within your own subsystem: Read your input data directly from your Subsystem data directory.
- If your input is created by another Subsystem's PGE and the data product is archived: Read your input data from the ASDC DPO.
- If your input is created by another Subsystem's PGE and the data product is NOT archived: Read your input data from the previous Subsystem's data directory.



New Environment Variables



- `$CPUTYPE`
 - Architecture type of the machine the software is processing on
- `$InputArchive`
 - ASDC DPO
 - `/ASDC_archive/CERES` if your subsystem only reads data from CERES
 - `/ASDC_archive` if your subsystem reads data from other projects
- `$InputArchiveSS`
 - `$CERESHOME/subsys/data`
- `$InputArchiveInt`
 - `$CERESHOME/other_subsys/data`



How do I Set the New Environment Variables



- New Scripts in CERESlib
 - CPUTYPE is automatically set by ceres-env.csh.
 - CPUTYPE can be manually retrieved by:
 - `$CERESHOME/lib/common/get_cputype.csh`
- New Routines in Perl_Lib SGE_Utils.pm:
 - Getting CPUTYPE in Perl
 - `use SGE_Utils;`
 - `my $cputype = SGE_Utils::getCPUTYPE();`
 - `$ENV{'CPUTYPE'} = $cputype;`



Special Case Considerations



- Special Cases
 - Must be documented
- Example
 - Instrument Edition 2/3 processor
 - Data created months/years before this PGE is run.
Read data from DPO in this case.



General Information for Delivery to CM



- Send an e-mail to the CERES CM alias documenting which data from the DPO is needed for testing your delivery
 - The AMI DPO is separate from the AMI-P DPO and the data will need to be moved to the AMI-P DPO
 - CERES CM will take care of the request



How Do I Set the Environment Variables for CM Testing?



- If your Input Data is in the DPO:
 - setenv PROD yes
 - The wrapper scripts will set InputArchive to the DPO
- If your Input Data should be in the DPO, but is not yet in the DPO:
 - Deliver Input Data in your delivery package in your subsystem data directory
 - setenv PROD no
 - The wrapper scripts will set InputArchive to your subsystem data directory



How Do I Set the Environment Variables for CM Testing?(cont'd)



- If your Input Data comes from a previous PGE in your Subsystem:
 - Deliver Input Data in your delivery package in your subsystem data directory
 - The wrapper scripts will set InputArchiveSS to your Subsystem's data directory
- If your Input Data is Intermediate Data Files from a previous Subsystem
 - Deliver Input Data in your delivery package in your subsystem data directory and provide instructions on where these files should be moved in your Test Plan
 - The wrapper scripts will set InputArchiveInt to point to these files



How Do I Set the Environment Variables for CM Testing?(cont'd)



- If your Input Data comes from both the DPO and either a Previous PGE or a Previous Subsystems Intermediate Data
 - If Input Data is not yet in the DPO
 - Deliver Input Data in your delivery package in your subsystem data directory
 - setenv PROD no
 - This only changes the value of InputArchive. InputArchiveSS and InputArchiveInt variables will remain as set in the wrapper scripts
 - If Input Data is in the DPO
 - setenv PROD yes
 - InputArchive, InputArchiveSS and InputArchiveInt will be set by the wrapper scripts