

AMI Job Submission Scripts

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Scripting Team

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Purpose

- To develop platform-independent job submission scripts to be run on *AMI* by testers and operator's.
- Scripts can also be used by developers.

Requirements

- Provide a script that performs initial file checking.
- Submit the job to SGE via qsub if all of the mandatory files are available. If the files aren't available, provide a list of missing files.
- Provide a submission script that is platform independent.
- Provide a script that “comes alive” on a node, sets up the environment, creates the pcf, and executes the binary file(s).
- Provide additional functionality as identified by the ASDC.

System-wide Consistency

- Standardized script names to provide consistency from PGE to PGE.
- Team can customize scripts with additional functionality if needed.
- Log files

Log Files

- PCF log (as required by *AMI* Delivery Policies Bulletin 10-01)
 - Always created when the PCF is generated
 - Lists the environment, files found, and files not found
- FileCheck log
 - Only created when mandatory files are missing
 - Created by PGENAME-SGE_Driver.pl
- SGE log
 - Normal log created by SGE that contains stdout and error log

Other Considerations

- Test Plans and Operator's Manuals will need to be updated to document the scripts.
- Test cases need to be more robust to more fully exercise the functionality of the scripts.
- Script development order is based on the *AMI* delivery schedule.
- Scripts will be included in the Subsystem's delivery package.

Running a Job

- Source the PGE-specific environment
- Execute PGENAME-SGE_Driver.pl
 - Job is only submitted when the appropriate number of mandatory input files are available.
- Example
 - source PGENAME-env.csh
 - PGENAME-SGE_Driver.pl –date YYYYMMDD
 - OR
 - PGENAME-SGE_Driver.pl –start YYYYMMDD –end YYYYMMDD