



Comments - 1

BANG
HEAD
HERE

- Unexplained crashes
 - Problem running a series of queries
 - Segmentation fault in ARC
 - Works for a single query / interactively
 - Resolved last thursday!
- Coding conventions
- Misleading error messages
- Fix working code



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Comments - 2



- Documentation mostly there
 - Not everything is obvious to a newbie
 - e.g. ParseFromFile (JobDescription)
 - Guess and grep source code
 - Eureka moments

- Examples on the web

- Almost helpful
- Out of date? :(

- Bug reports / feature requests

- 3413 (bug), 3414 (feature)
- Very very quiet for > 8 months



CN
COLLECTION





For now it is





Backup 1 : Misleading errors

- [ARCJDSLParser] XML parsing error: Start tag expected, '<' not found
- [ARCJSDLParser] Wrong XML structure!
 - Seems to expect that the XRSL/JDL is an XML file with xml tags
 - It is not (?)
 - JobDescriptionParser/JDLParser.cpp
- [JDLParser] There is at least one necessary square bracket missing or their order is incorrect. ('[' or ']')
 - Comes from JDL parser checking
 - JobDescriptionParser/JDLParser.cpp
 - Hunts for '[' or ']'
 - Throws an error when neither are present in the JDL
 - They need not be present in the jdl.





Backup 2 : Job information

- What is the job information that I should be giving?
- What version of ARC are we on?
 - Source code of “SubmitterPluginARC1.cpp”
 - For ARC 3.0 we also need to specify “IDFromEndpoint”
 - What / Why / Where is it?
- Currently use following bit of code

```
def theARCJob(theCE, theArcID, proxy):
    # Create an ARC Job with all the needed / possible parameters defined.
    j = arc.Job()
    j.JobID = theArcID
    j.JobStatusURL = arc.URL("ldap://" + theCE +
        ":2135/Mds-Vo-Name=local,o=grid??sub?(nordugrid-job-globalid="
        + theArcID + ")")
    j.JobStatusInterfaceName = "org.nordugrid.ldapng"
    j.JobManagementURL = arc.URL("gsiftp://" + theCE + ":2811/jobs/")
    j.JobManagementInterfaceName = "org.nordugrid.gridftpjob"
    j.ServiceInformationURL = j.JobManagementURL
    j.ServiceInformationInterfaceName = "org.nordugrid.ldapng"
    userCfg = arc.UserConfig()
    userCfg.CredentialString(proxy)
    j.PrepareHandler(userCfg)
    return j
```





Backup 3 – Misc stuff

- Client compilation fails on Ixplus
 - Multiple attempts
- Eureka moment
 - All information is on Idap
 - Including the CE, job statuses, ...
 - Could have saved myself a lot of time if I had known this before :)
 - Figuring out the prefixes and suffixes
 - See previous slide
 - And why these were needed?
 - I was just interrogating a CE which should have known all the information



Backup 4 – Future developments

- What api updates do I expect in future?
- We use gsiftp currently for job management URL
 - Would this be common to all sites?
 - Currently tested only against the RAL Tier-1
- Any other suggestion to keep in mind going to the future?
- Currently use ARC api v4.2.0