



Hands on Session: Job Collection Submission

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- Job collection description
- JDL of a job collection
- Hands On example

- A set of independent jobs
- For some reason must be managed as a single unit
- Possible reasons:
 - Belong to the same experiment
 - Share common input files
 - Optimize network traffic
- Sharing of sandboxes
- Two ways to define job collection
 - Single JDL file
 - Directory with JDL files

```
[
Type = "Collection";
InputSandbox = {
    "sharedFile1"; . . .; "sharedFileM" };#Transfer from UI only once
nodes = {
    [ JobType = "Normal";                               #JDL of first job
    InputSandbox = {root.InputSandbox, . . .}
    ...; ],
    . . .
    [ JobType = "Normal";                               #JDL of n-th job
    ...; ],
    . . .
    };
]
```

```
Type = "Collection";
InputSandbox = ("fileA");
Requirements = RegExp("ce64.ipb.ac.rs*",other.GlueCEUniqueID);
nodes = {
  [
    JobType = "normal";
    Executable = "/bin/hostname";
    Arguments = "-i";
    StdOutput = "out";
    InputSandbox = (root.InputSandbox, "fileB");
    StdError = "err";
    OutputSandbox = {"out", "err"};
  ],
  [
    JobType = "Normal";
    Executable = "/bin/date";
    StdOutput = "date";
    StdError = "err";
    OutputSandbox= {"date"};
  ]
};
```

- Navigate to following address:

http://wiki.ipb.ac.rs/index.php/Grid_examples

- Choose Job collection example and follow the instructions for submitting job collection consisting of two separate JDL files

- gLite user guide
 - <https://edms.cern.ch/file/722398//gLite-3-UserGuide.pdf>
- Quick user guide for submitting jobs
 - http://wiki.egee-see.org/index.php/Quick_User_Guide_for_Submitting_Jobs