Poster

Title
ExecutionPlanner prototype design to enable CIRASA tools

Abstract
The ExecutionPlanner is, in simple terms, a REST service (that has to be provided by a computing infrastructure) able to answer the question: “Can I run here this ‘executable thing’?”.
CIRASA is a visual analytic platform for advanced source finding and classification, integrating state-of-the-art tools, such as the CAESAR source finder, the ViaLactea Visual Analytic (VLVA) and Knowledge Base (VLKB).
This work is about the design (and development?) of a simple ExecutionPlanner prototype defining the data model description of CIRASA tools and the ‘software engine’ able to answer the question “Can I run here?” where ‘here’ is our computing infrastructure consisting in ….

#################### Just to help understanding:

ExecutionPlanner briefly and description of the work behind the poster
The ExecutionPlanner is, in simple terms, a REST service (that has to be provided by a computing infrastructure) able to answer the question: “Can I run this ‘executable thing’?”.
The ‘executable thing’ description should be done using a ‘data model’ which is under discussion/definition.
Example of the http query:

```
# ExecutionPlanner client request.
request:
# Details of the executable.
executable:
# A URI identifying the type of executable.
      type: "https://www.purl.org/ivoa.net/executable-types/oci-
            container"
      # The details, specific to an OCI container.
      spec:
            os: "linux"
            arch: "amd64"
            repo: "ghcr.io"
            image: "ivoa/oligia-webtop"
            version: "ubuntu-2022.01.13"
```

In our case ‘data’ will be the CIRASA tools.
In our work we should define the data model for CIRASA tools and design, if possible develop, the REST service suited to our computing resources.