

Integrate applications in JUBE

Introduction

- JUBE Benchmarking Environment: provides a script based framework to easily create benchmark sets, run those sets on different computer systems and evaluate the results.
- Documentation: [?http://apps.fz-juelich.de/jsc/jube/jube2/docu/index.html](http://apps.fz-juelich.de/jsc/jube/jube2/docu/index.html)
- Current version available in the DEEP and DEEP-ER systems: 2.1.0
- Example commands:

```
ssh user@deep

$ jube2 info benchmark_directory
$ jube2 status benchmark_directory [-i run_id]
$ jube2 run benchmark_xml_file [--tag tag1 tag2 ...]
$ jube2 analyse benchmark_directory [-i run_id]
$ jube2 result benchmark_directory [-i run_id]
```

Example application

```
ssh manzano@deep

cd /usr/local/deep-er/sdv-benchmarks/applications/MAXW-DGTD
```

Compile

See for instance the JUBE xml file of the example application:

```
vim MAXW-DGTD-jube-master-SDV.compile.xml
```

Important parts in the file are:

1) Platform

```
<include-path>
  <path>/usr/local/jube2/platform/deep</path>
</include-path>
```

Under /usr/local/jube2/platform/deep there are a series of files with default values for the DEEP and DEEP-ER systems:

```
deep-chainJobs.sh
submit.job.in
platform.xml
```

These files won't be modified but the default values can be overwritten in the JUBE xml file.

2) Sources

```
<fileset name="sources">
  <copy>MAXW-DGTD.tar.gz</copy>
  <prepare>tar -xzf MAXW-DGTD.tar.gz</prepare>
</fileset>
```

...