



Enabling Grids for E-science

report on application porting of HYP3D

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- **The code compiles with the Gnu Fortran compiler except TK**
 - Intel Fortran compiler not present on GILDA
 - options used : -O -fno-automatic -finit-local-zero
- **Libraries**
 - our local libraries compiled with minor problems
 - BLAS and LAPACK libraries not present on GILDA environment, so we had to download them and link statically with them.

- **To submit TB, here is the JDL file tb6.jdl :**

```
-Type = "Job";
```

```
-JobType = "Normal";
```

```
-Executable = "/bin/sh";
```

```
-Arguments = "tb6.b";
```

```
-StdOutput = "tb6.stdout";
```

```
-StdError = "tb6.err";
```

```
-InputSandbox = {"tb6.b","tb6.out","tb6.d", "system_info"};
```

```
-OutputSandbox = {"tb6.err","tb6.stdout"};
```

```
-RetryCount = 7;
```

```
-Rank = other.GlueCEStateFreeCPUs;
```

- **... and the script `tb6.b` :**

```

export LCG_CATALOG_TYPE=lfc
export LFC_HOST=lfc-gilda.ct.infn.it
export LCG_GFAL_VO=gilda
hostname
PATH=$PATH:..
chmod +x tb6.out system_info
# -----
date
set -x
cat tb6.d
# -----
time tb6.out < tb6.d > OUTPUT
# -----
cat OUTPUT
lcg-cr --vo gilda file://$PWD/na3-ps.s221.o0.b8 \
    -l lfn:/grid/gilda/training/budapest/budapest24/na3-ps.s221.o0.b8

```

- **Run & Results of TB :**

- Then after changing some namelist values in the tb6.d input file, the job is submitted with : `edg-job-submit tb6.jdl`
- The first run of TB didn't work, after a slight change in the the name of stdOutput, it worked
- Preliminary checks shows correct results of the second run

- **Submission of TJ :**

- The executable is bigger and can't pass on the Input Sandbox, so I had to put it on a Storage Element. I was running out of time, I was just able to submit the job.