

## Application deployment (BLAST) using a SE

Files: blast.tar.bz2 ,db.fasta,seq.fasta      /tmp

Proceedings:

- copy the tar.bz2 and the db.fasta files on the SE (use **lcp-cr**)
- create a shell script (for example **runtask.sh**)
  - o export LFC\_HOST=lfc.grid.sinica.edu.tw
  - o export LCG\_CATALOG\_TYPE="lfc"
  - o export  
    VO\_APESCI\_DEFAULT\_SE=dpm01.grid.sinica.edu.tw
  - o gets the two files **blast.tar.bz2**, **db.fasta** (use **lcp-cp**)
  - o decompresses blast.tar.bz2 (use **tar -jxvf ...**)
  - o format the database db.fasta (use **formatdb ...**)
  - o launch the blastall command (use **blastall ...**)
- create a JDL file:
  - o executable : **/bin/sh**
  - o arguments: your **shell file**
  - o inputsandbox: your **shell file**, **seq.fasta**
  - o outputsandbox: the **output file** of blast
- submit the job and get the output