Writing files using the runcontrol

For this you need to be under dynamic allocation. Run-numbers will be allocated automatically from the Rundatabase. Your files are stored locallly under

```
/daqarea/lhcb/data/2008/RAW
```

This is mounted on plus02 and plus01. We do not want to mount it on other systems to ease the load on our NFS servers.

These files are regulary (every hour) copied to CASTOR. You will find them there under

```
/castor/cern.ch/grid/lhcb/data/2008/RAW
```

From RAW onward the structure is the same

```
PARTITION/ACTIVITY/RUN
```

Example

Run number 21444 for RICH1 was taken in "ALICE" activity. On plus02 you find it on

```
/daqarea/lhcb/data/2008/RAW/RICH1/ALICE/21444/021444_0000002461.raw
```

and on CASTOR

```
/castor/cern.ch/grid/lhcb/data/2008/RAW/RICH1/ALICE/21444/021444_0000002461.raw
```

Notes

- If you don't find a file on CASTOR, don't panic. Files are only copied when they are not of zero-length and at least 10^6 bytes long.
- Files are **not** automatically deleted from the /daqare. So nothing will vanish, before you will get an explicit warning
- Files are **never** deleted from CASTOR, unless you explicitly ask for this

Writing files locally (using)

When writing files locally, that is by using `DiskWR`, the files are **not** managed centrally by the Run Database. You are yourself responsible for managing these files. We provide an area for such files, which is mounted on all farm-nodes under `/data`. There is a group-writable subdirectory for every sub-detector.

These files are regulary (every hour) copied to CASTOR. You will find them there under

```
/castor/cern.ch/lhcb/online/point8/<group name>/
```

Notes

- Do **NOT** use special characters in your file names: blanks, \, ^, %, $, &, ? - these might or might not work and we will **NOT** check that this works
- small files (< 1 MB) will not be copied to CASTOR - pack them into archives
- files which are marked as **migrated** in CASTOR (a small **m** in the `nsls` output) can and will eventually be deleted from the Online storage. We never delete files from CASTOR

- Our scripts are paranoid - if after a file has been copied to CASTOR, you change the size of the file (rewrite, truncate, etc...) - the new file will **not be copied** and the original file on CASTOR will never be overwritten. Use a new file-name
- It's ok to create directories on the

```
/data/group name>/
```

area, they will be recursively copied

-- NikoNeufeld - 14 Apr 2008

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