

## Dual LBA DAS 64 MHz

When using both DAS in parallel with the 64 MHz filters (1 Gbps total recording rate), the output for each DAS is written to separate files. For correlation it is most convenient to merge the two DAS to a single datastream.

The start times of files to be merged must match exactly. If they do not, one or other can be shifted with `lbasync`. E.g.

```
cd DAS2
lbasync -o ../DAS2_fix -t 60 *.lba
```

Once the file times agree, they can be merged pairwise and converted to Mark5b format with `lbamerge`:

```
cd ../merge
lbamerge -mark5b ../DAS1/v558a_das1_Mp_073_000000.lba
../DAS2_fix/v558a_das1_Mp_073_000000.lba ./v558a_merge_Mp_073_000000.mk5b
```

There is a wrapper script for `lbamerge` that will combine all files in two directories assuming they have matching names (differing only by `s/das1/das2/`):

```
lbamerge_all.py ../DAS1/ ../DAS2_fix/
```

Files for one DAS which do not have a match in the other DAS's directory will be joined with a duplicate of themselves.

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