

To update a scan with new QC1 calibration (density information):

From the directory containing raw data (RSQ and/or ISQ), run:

```
$ mcr ut:uct_ext_header_add_calib
```

```
UCT_EXT_HEADER_ADD_CALIB V 1.1
```

```
Raw-Data-File []:      give the name of an RSQ or ISQ with extension
```

```
Reading Raw Data ...
```

```
  IDX Calib Description
```

```
  1      1 45 kVp, 200mg HA wedge, 4096 scaling
  2      2 55 kVp, 200mg HA wedge, 4096 scaling
  3      3 70 kVp, 200mg HA wedge, 4096 scaling
  4      4 General, non-bone-density-calibrated scan, scale 4096
  5      5 45 kVp, BH: 1200 mg HA/ccm, Scaling 4096
  6      6 55 kVp, BH: 1200 mg HA/ccm, Scaling 4096
  7      7 70 kVp, BH: 1200 mg HA/ccm, Scaling 4096
```

```
Calibration Record No [0]: specify the new calibration, e.g. 6
```

```
Calibration No.          6
```

```
Description 55 kVp, BH: 1200 mg HA/ccm, Scaling 4096
```

```
Scanner-ID              5019
```

```
Energy [V]              55000
```

```
Antiring Enable         0
```

```
Beamhardening Enable    1
```

```
Beamhardening Coeff file UCTD:UCT_BH_COEFF_55KV_1200HA_5019.TXT
```

```
Default unit type (1= $\mu$ , 2=mg, 3=HU, 4=Custom)          2
```

```
Same type already found. Setting old to invalid
```

```
SUCCESS: calib hext written
```

```
updating header...
```

```
SUCCESS: Header successfully updated.
```

```
Calib record indicates that BH-Corr is usually applied.
```

```
Info: There is a BH-Corr corr already in hext.
```

```
Add another BH-Corr from file again? (Y/N) [N]:  N
```

Cut out a new AIM from the updated ISQ and proceed with the analysis.