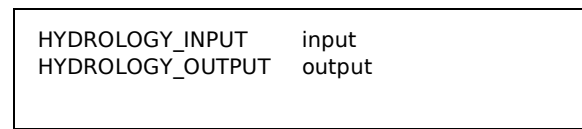
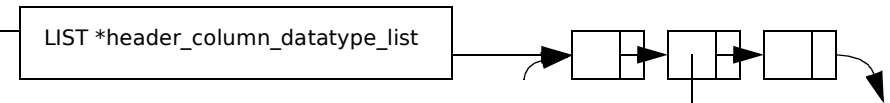


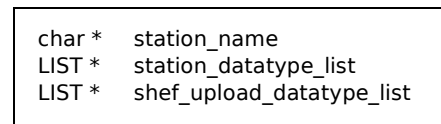
## HYDROLOGY



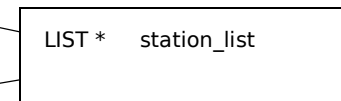
## HYDROLOGY\_OUTPUT



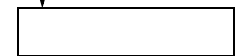
## STATION



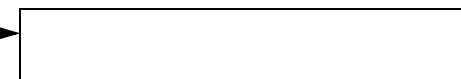
## HYDROLOGY\_INPUT



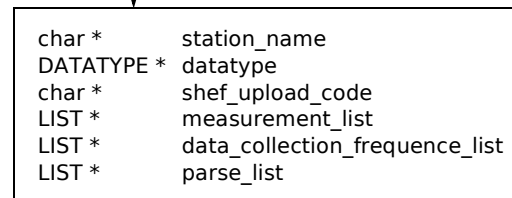
## DATATYPE



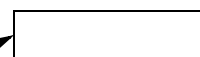
## SHEF\_UPLOAD\_DATATYPE



## STATION\_DATATYPE



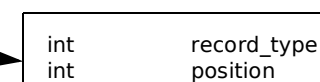
## DATATYPE



## DATA\_COLLECTION\_FREQUENCY

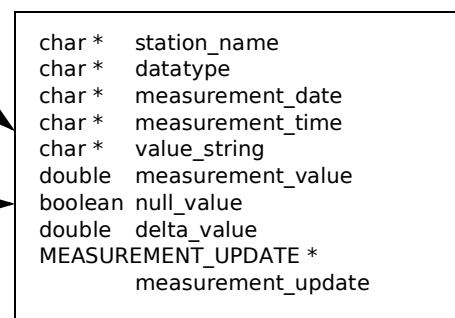


## PARSE

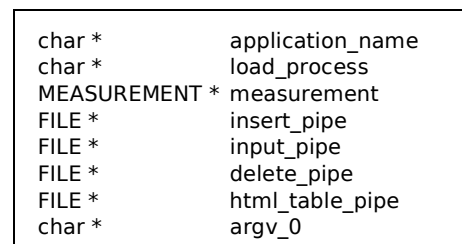


Campbell data loggers

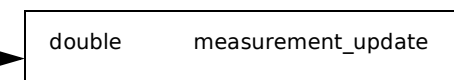
## MEASUREMENT

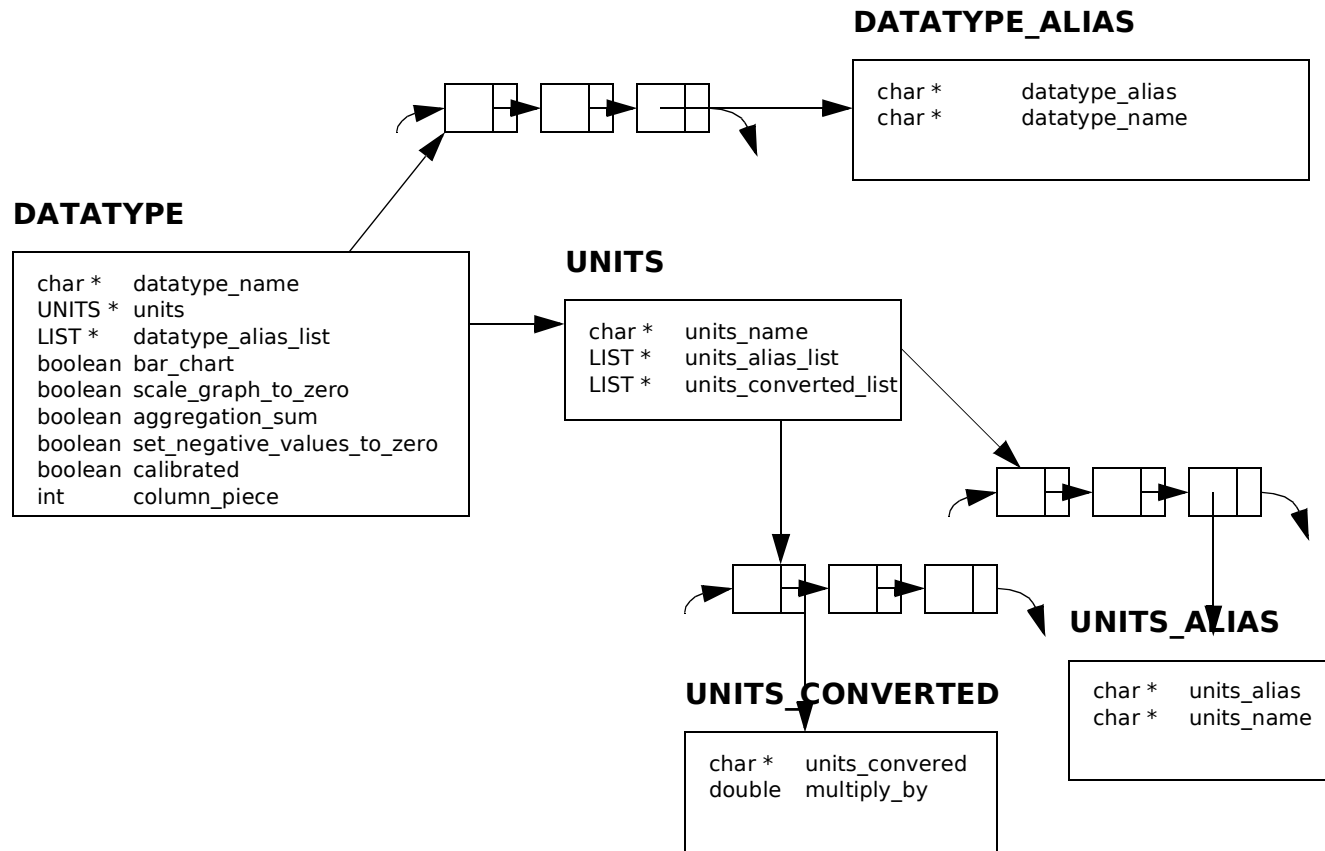


## MEASUREMENT\_STRUCTURE



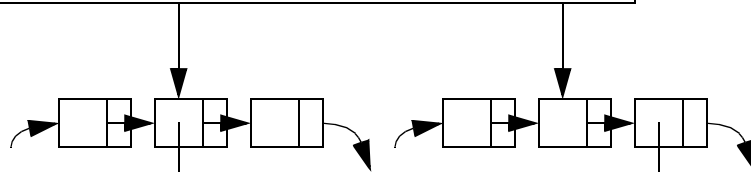
## MEASUREMENT\_UPDATE





## SHEF\_DATATYPE\_CODE

```
LIST * shef_upload_datatype_list
LIST * shef_download_datatype_list
```



## SHEF\_UPLOAD\_DATATYPE

```
char * station_name
char * shef_upload_code
char * datatype_name
```

## SHEF\_DOWNLOAD\_DATATYPE

```
char * station_name
char * datatype_name
char * shef_download_code
```

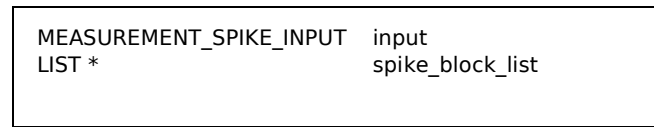
## SHEF\_UPLOADAggregateMEASUREMENT

```
char * station
char * datatype
char * measurement_date
char * measurement_time
double measurement_value
```

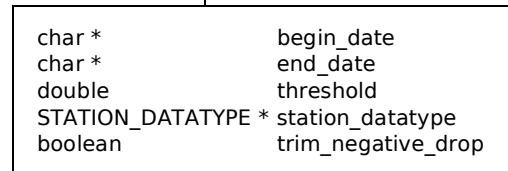
If the last two characters in the shef code are 'MM':

- 1) Trim off the MM
- 2) Generate key=datatype^measurement\_date^measurement\_hour
- 3) If key in hash table: if ( measurement\_value < prior.measurement\_value ) then  
datatype = \${datatype}\_min
- 4) If key in hash table: if ( measurement\_value > prior.measurement\_value ) then  
datatype = \${datatype}\_max
- 5) Set key to hash table

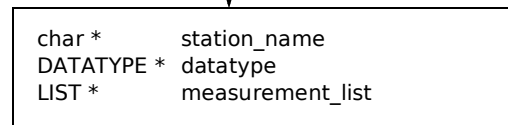
## MEASUREMENT\_SPIKE



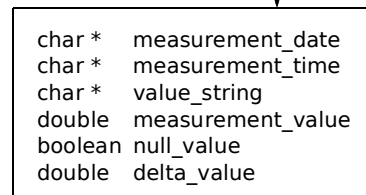
## MEASUREMENT\_SPIKE\_INPUT



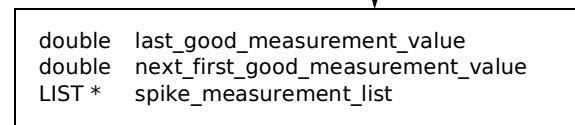
## STATION\_DATATYPE



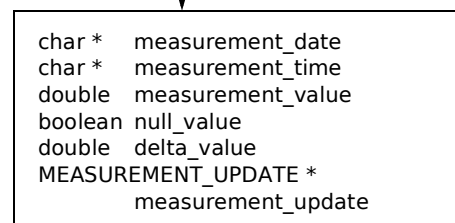
## MEASUREMENT



## MEASUREMENT\_SPIKE\_BLOCK



## MEASUREMENT



## MEASUREMENT\_UPDATE

