

# .king

## process\_raw (Level 1)

### Purpose

This script extracts analog data from SEA M300 data system file (\*.sea) and creates the \*.analog.raw file.

### Required Input File

\*.sea

### Output File

Among many other files, it generates:

\*.analog.raw

This will be used in the following scripts.

### Syntax

```
process_raw <-d> <-v> <-vm> input_file
```

#### Example Syntax

```
process_raw $ADPAA_DIR/src/TestData/FlightData/20140429_152103/PostProcessing/14_04_29_15_21_03.sea
```

## analog2physical (Level 2)

### Purpose

To convert analog measurements from engineering units (volts) to physical units (i.e. degree C).

### Required Input File

\*.analog.\*

### Output File

\*.physical.raw

### Syntax

```
analog2physical <final> <csh_error> <hotwire_offset> <nohotwireslave> <physical> <ccn> <ballvario> <nevzorov> <TDLflow> input_file
```

#### Optional parameters

<final> causes the output data to be tagged Final instead of Preliminary.

<csh\_error> causes the error to be returned to the csh calling program.

<nohotwireslave> causes the hot wire probe voltage not to be checked.

<physical> generates a \*.physical.raw file.

<ccn> generates a \*.ccn.raw file.

<ballvario> generates a \*.ballvario.raw file.

<nevzorov> generates a \*.nevzorov file.

<TDLflow> generates a \*.TDLflow.raw file.

#### Example Syntax

```
analog2physical $ADPAA_DIR/src/TestData/FlightData/20140429_152103/PostProcessing/14_04_29_15_21_03.analog.raw
```

The \*.analog.raw file is generated from process\_raw.

## king2lwc (Level 3)

### Purpose

To calculate the liquid water content for the king probe using a correction factor for the baseline voltage and call all necessary subroutines.

### Required Input Files

\*.physical.raw, \*.wind.raw or \*.basic.raw, \*.baumgardner.fssp.raw or \*.conc.spp.fssp.raw or \*.conc.cdp.raw or \*.conc.fscdp.raw

### Output Files

\*.king.raw

### Syntax

```
king2lwc [physical_file] [wind_file or basic_file] [fssp_file or cdp_file]
```

### Examples

```
king2lwc 02_07_18_16_41_07.physical.raw 02_07_18_16_41_07.REAL.winds.raw 02_07_18_16_41_07.baumgardner.fssp.raw
```

```
king2lwc 23_01_13_04_16_54.physical.raw 23_01_13_04_16_54.basic.raw 23_01_13_04_16_54.conc.cdp.raw
```

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