\*/5 \* \* \* \* /bin/bash /root/**get-all.sh**

0 \*/12 \* \* \* /bin/bash /root/**perlin.sh**

\*/5 \* \* \* \* /bin/bash /root/**upload-cgmsim.sh**

Ubuntu 20.04 LTS VM on Digital ocean

**get-all.sh**

curl …

* …herokuapp.com/api/v1/entries/sgv/ -- > **sgv.json**
* …herokuapp.com/api/v1/treatments/ -- > **entries.json**
* …herokuapp.com/api/v1/profile/ -- > **profile.json**

node **computeBolusIOB.js**

* grabs all “insulin” entries from **entries.json**
* computes activity curves for each dose
* limits to last 5 hours (or DIA)
* computes a cumulative activity
* writes *resultACT* to **lastmealtime.json**

node **computeBasalIOB.js**

* grabs all “notes” entries from **entries.json**
* slices notes to “gla” and “det” and dose (number)
* writes **last\_glargine.json** and **last\_detemir.json**

node **glargine.js**

* requires **last\_glargine.json**
* maps the array of glargine notes
* computes cumulative activities for doses in the last 27 hours (DIA of glargine)
* writes **last\_glargine\_aggrACT.json**

node **detemir.js**

* requires **last\_detemir.json**
* maps the array of detemir notes
* computes cumulative activities for doses in the last 30 hours (DIA of glargine)
* writes **last\_detemir\_aggrACT.json**

node **all\_insulin.js**

* requires **last\_glargine\_aggrACT.json**
* requires **last\_detemir\_aggrACT.json**
* requires **lastmealtime.json**
* computes basal + mealtime insulin activities

node **all\_meals.js**

- grabs all “carbs” (time/amount) from **entries.json**

- keeps only meals in the last 6 hours

- writes **last\_meals.json**

node **carbs.js**

- requires **last\_meals.json**

- splits each meal entry in fast/slow carbs (rnd 10-14%)

- computes cumulative carb rate

- writes to **latest\_carbs.json**

node **arrows.js**

- requires **sgv1.json (< -- correct this !)**

- computes mean delta sgv in the last 15 min

- sets the arrow shape

- writes **arrows.json**

**upload-cgmsim.sh**

curl …

* …herokuapp.com/api/v1/entries/sgv/ -- > **sgv1.json (< -- correct this !!!)**

node **sgv\_start.js**

- requires **sgv1.json**

- requires **last\_mealtime.json**

- requires **last\_glargine\_aggrACT.json**

- requires **last\_detemir\_aggrACT.json**

- compute total insulin activity and *BGI\_ins*

- compute *liver\_bgi*

- require **latest\_carbs.json**

- require **arrows.json**

- require **perlin.json**

- limits sgv to 40 – 400 mg/dl

- computes sgv[0] + *BGI\_ins* + *liver\_bgi* + perlin noise

- writes **cgmsim-sgv.json**

- uploads to NS instance :

curl -H "Content-Type: application/json" -H "api-secret:YOUR HASHED APISECRET" -XPOST 'https://YOURNIGHTSCOUT.herokuapp.com/api/v1/entries/' -d @**cgmsim-sgv.json**