action.log.

2023-01-21 10:02:03 Get windchill:

['-', '0', '0', '0', '0', '0']

Examples in english in the second half of the document. Programmet har delvis körts bara för att få lämpliga loggar. De har pga detta lite märkliga tidsstämplar. Ett fall där enbart schemalagd styrning konfigurerats. set_indoor_temp_hours=20_16, 05_18, 06_21 Timmen 09 är en "mellantimme" därför inget att uppdatera. 2023-01-22 07:02:01 main:start. 2023-01-22 07:02:01 Get indoor temp: ['2023-01-22', '06', '21'] 2023-01-22 07:02:01 Get start update: 2023-01-22 07:02:01 set new indoor temp: Generella schemat. Inget att reglera denna timme 2023-01-22 07:02:01 main: end. Vid dygnsskifte ska en sparad temperatur inte gälla längre. Schemalag ändring + vindkyleändring. set indoor temp hours=20 17, 06 20 2023-01-21 06:02:12 main: start. 2023-01-21 06:02:12 create hourly rates: created /home/pg/pgart/var/local/hourly rate 20230121.txt 2023-01-21 06:02:12 Get indoor_temp: ['2023-01-20', '20', '17'] 2023-01-21 06:02:12 Del indoor temp: borttagen. Anledning:För gammalt 2023-01-21 06:02:13 tcp_get_indoor_temperature: status:ok. heating effect:17 2023-01-21 06:02:13 Get hourly rate: ['-', '0', '0'] 2023-01-21 06:02:13 Get windchill: ['2023-01-20', '20', '3', '-5.4', '-3.5', '1'] 2023-01-21 06:02:13 Set windchill: (3) Temperaturhöjningen inom gränsvärdena. windchill temp:-6.3 diff real windchill:-3.8 pump incr:2 2023-01-21 06:02:13 Get indoor temp: ['-', '0', '0'] 2023-01-21 06:02:13 set_new_indoor_temp: Schemalagd temperatur:20 2023-01-21 06:02:13 Set start update: hr_rate_usage:off hr_rate_temp_decr/incr:0 windchill_temp_usage:set_hour windchill_temp_incr/decr:2 if_new_failure_this_temp:22 2023-01-21 06:02:14 tcp_set_indoor_temperature: status:ok 2023-01-21 06:02:14 Set indoor temp: Generella schemat. Schemalagd ändring. Vindkyle temphöjning. Börvärdet satt till:22, hr rate temp decr/incr:0, windchill temp incr/decr:2 2023-01-21 06:02:14 Del start update: Uppdateringen avslutad. 2023-01-21 06:02:14 main: end. Ingen schemalag ändring men vindkyleeffekten medför en temperaturhöjning. 2023-01-21 10:02:03 main: start. 2023-01-21 10:02:03 Get indoor temp: ['2023-01-21', '09', '21'] 2023-01-21 10:02:03 tcp get indoor temperature: status:ok. heating_effect:21

```
(3) Temperaturhöjningen inom gränsvärdena. windchill temp:-2.2 diff real windchill:-2.4 pump incr:1
2023-01-21 10:02:03 Get indoor_temp:
     ['2023-01-21', '09', '21']
2023-01-21 10:02:03 Set start update:
     hr_rate_usage:off hr_rate_temp_decr/incr:0 windchill_temp_usage:set_hour_windchill_temp_incr/decr:1 if new_failure_this_temp:22
2023-01-21 10:02:04 tcp set indoor temperature:
     status:ok
2023-01-21 10:02:04 Set indoor temp:
     Generella schemat. Ingen schemalagd ändring. Vindkyle temphöjning. Börvärdet satt till:22, hr_rate_temp_decr/incr:0, windchill_temp_incr/decr:1
2023-01-21 10:02:04 Del start_update:
     Uppdateringen avslutad.
2023-01-21 10:02:04 main: end.
Vid denna körning svarade inte SMHIs webbAPI. Temperaturhöjningen pga vindkyleeffekten gäller alltså inte längre. Temperaturen återställs (sänks).
2023-01-21 11:02:06 main: start.
2023-01-21 11:02:06 Get indoor temp:
     ['2023-01-21', '10', '22']
2023-01-21 11:02:07 tcp_get_indoor_temperature:
     status:ok. heating effect:22
2023-01-21 11:02:07 get forecast:
     Kunde inte hämta utsikterna från SMHI. Response:503
2023-01-21 11:03:02 get_forecast:
     Kunde inte hämta utsikterna från SMHI. Response:503
2023-01-21 11:03:02 Get windchill:
     ['2023-01-21', '10', '3', '-2.2', '-2.4', '1']
2023-01-21 11:03:02 Get indoor temp:
     ['2023-01-21', '10', '22']
2023-01-21 11:03:02 Del windchill:
     borttagen. Anledning:reset back to normal
2023-01-21 11:03:02 Set start update:
     hr rate usage:off hr rate temp decr/incr:0 windchill temp usage:reset hour windchill temp incr/decr:1 if new failure this temp:21
2023-01-21 11:03:02 tcp set indoor temperature:
     status:ok
2023-01-21 11:03:02 Set indoor temp:
     Generella schemat. Ingen schemalagd ändring. Vindkyle tempåterställning. Börvärdet satt till:21, hr_rate_temp_decr/incr:0, windchill_temp_incr/decr:1
2023-01-21 11:03:02 Del start update:
     Uppdateringen avslutad.
2023-01-21 11:03:02 main: end.
I detta fall har schemalagd användning + timprisstyrning + vindkylestyrning konfigurertas.
Ingen schemalag träff. Både timpris och vindkyleeffekten har påverkat temperatursättningen.
2023-01-21 12:02:01 main: start.
2023-01-21 12:02:01 Get indoor temp:
     ['2023-01-21', '11', '21']
2023-01-21 12:02:01 tcp get indoor temperature:
     status:ok. heating effect:21
2023-01-21 12:02:01 Get hourly_rate:
     ['-', '0', '0']
2023-01-21 12:02:01 Set hourly rate:
     Börvärdet sänks med:2
2023-01-21 12:02:02 Get windchill:
     ['-', '0', '0', '0', '0', '0']
2023-01-21 12:02:02 Set windchill:
      (3) Temperaturhöjningen inom gränsvärdena. windchill_temp:-1.3 lower_than_real:-2.1 pump_incr:1
2023-01-21 12:02:02 Get indoor_temp:
```

2023-01-21 10:02:03 Set windchill:

```
['2023-01-21', '11', '21']
2023-01-21 12:02:02 Set start update:
     hr_rate_usage:set_hour hr_rate_temp_decr/incr:2 windchill_temp_usage:set_hour_windchill_temp_incr/decr:1 if_new_failure_this_temp:20
2023-01-21 12:02:02 tcp set indoor temperature:
     status:ok
2023-01-21 12:02:02 Set indoor temp:
     Generella schemat. Ingen schemalagd ändring. Timpris tempsänkning. Vindkyle temphöjning. Börvärdet satt till:20, hr rate temp decr/incr:2, windchill temp incr/decr:1
2023-01-21 12:02:02 Del start update:
     Uppdateringen avslutad.
2023-01-21 12:02:02 main: end.
Här sänktes inte temperaturen trots att timprissänkningen hade valt denna timme. Anledning: timpriset var lägre än "hourly_rate_only_decrease_when_rate_above".
2023-01-21 15:02:01 main: start.
2023-01-21 15:02:01 Get indoor temp:
     ['2023-01-21', '14', '21']
2023-01-21 15:02:03 tcp get indoor temperature:
     status:ok. heating effect:21
2023-01-21 15:02:03 Get hourly rate:
     ['-', '0', '0']
2023-01-21 15:02:03 Get windchill:
     ['2023-01-21', '14', '3', '-4.6', '-3.5', '1']
2023-01-21 15:02:03 Set windchill:
      (3) Temperaturhöjningen inom gränsvärdena. windchill_temp:-5.4 diff_real_windchill:-3.5 pump incr:1
2023-01-21 15:02:03 Get indoor temp:
     ['2023-01-21', '14', '21']
2023-01-21 15:02:03 set new indoor temp:
  Temperaturen sänks inte. Inte dyrt nog denna timme. Timpriset:1.12 < hourly rate only decrease when rate above=1.5
2023-01-21 15:02:03 Set start update:
     hr rate usage:off:rate too low hr rate temp decr/incr:0 windchill temp usage:set hour windchill temp incr/decr:1 if new failure this temp:21
2023-01-21 15:02:03 set new indoor temp:
     Samma temperatur nu som förra gången. Pumpen uppdateras inte. Temp:21
2023-01-21 15:02:03 Set indoor temp:
     Generella schemat. Ingen schemalagd ändring. Vindkyle temphöjning. Börvärdet satt till:21, hr rate temp decr/incr:0, windchill temp incr/decr:1
2023-01-21 15:02:03 Del start update:
     Uppdateringen avslutad.
2023-01-21 15:02:03
main: end.
Ingen schemalag ändring men timprisstyrningen har "paus" i sänkningen. Därför höjs temperaturen lika mycket som den sänkts tidigare.
2023-01-21 10:02:01 main: start.
2023-01-21 10:02:01 Get indoor temp:
     ['2023-01-21', '09', '19']
2023-01-21 10:02:01 tcp get indoor temperature:
     status:ok. heating effect:19
2023-01-21 10:02:02 Get hourly rate:
     ['2023-01-21', '09', '2']
2023-01-21 10:02:02 Get windchill:
     ['-', '0', '0', '0', '0', '0']
2023-01-21 10:02:02 Get indoor temp:
     ['2023-01-21', '09', '19']
2023-01-21 10:02:02 Del hourly rate:
     borttagen. Anledning:reset back to normal
2<mark>023-01-21 10:02:02 set new indoor temp:</mark>
     Temperaturen sänks inte. Paustimme i timprissänkningen.
2023-01-21 10:02:02 Set start update:
     hr_rate_usage:reset_hour:hour_rate_paus hr_rate_temp_decr/incr:2 windchill_temp_usage:off windchill_temp_incr/decr:0 if_new_failure_this_temp:21
```

```
2023-01-21 10:02:02 tcp_set_indoor_temperature:
     status:ok
2023-01-21 10:02:02 Set indoor_temp:
     Generella schemat. Ingen schemalagd ändring. Timpris tempåterställning. Börvärdet satt till:21, hr rate temp decr/incr:2, windchill temp incr/decr:0
2023-01-21 10:02:02 Del start update:
     Uppdateringen avslutad.
2023-01-21 10:02:02 main: end.
Problem med att hämta timpriserna. Eftersom bara schemalagd styrning är konfigurerad så används inte timpriserna. De hämtas bara för statistiken skull.
Programmet loggar felet men fortsätter att reglera.
2023-04-15 09:02:05 main: start.
2023-04-15 09:02:09 create hourly_rates_justnu:
     Kunde inte hämta priserna från elprisetjustnu.se. response:404
2023-04-15 09:03:04 create hourly rates justnu:
     Kunde inte hämta priserna från elprisetjustnu.se. response:404
Failed to create:/home/pg/pgart/var/local/hourly_rate_20230415.txt
2023-04-15 09:03:05 create hourly rates:
     pgart control heating se/en. Kunde inte skapa timpriserna.
2023-04-15 09:03:05 create hourly rates:
  pgart_control_heating_se/en. Bara schemastyrning konfigurerad. Den fungerar trots att timpriserna inte kunde hämtas.
2023-04-15 09:03:06 Get indoor temp:
     ['2023-04-15', '10', '20']
Felmeddelanden kan sändas till gmail om man har skapat ett "Gmail app password"
2023-01-25 16:24:48 main: start.
2023-01-25 16:24:48 Get indoor_temp:
     ['-', '0', '0']
2023-01-25 16:24:48 BEGIN login:
     request config, response:200 json len=22
2023-01-25 16:24:48 request auth:
     response:200 size:151095
2023-01-25 16:24:49 request self asserted:
     online-genesis, Azure misslyckades, fel login id/password. Response:200{"status":"400", "errorCode":"AADB2C90053", "message":"Invalid username or password."}. Forced exit.
2023-01-25 16:24:51 send_mail_via_gmail:
     ok. xyz@gmail.com felmail
2023-01-25 16:24:51 Aborted.
Mailet från Gmail. xyz ersätter den verkliga adressen.
nyatester
xyz@gmail.com <xyz@gmail.com>
Bcc: xyz@gmail.com
2023-01-25 16:24:49 request self asserted:
     online-genesis, Azure misslyckades, fel login_id/password. Response:200 {"status":"400","errorCode":"AADB2C90053","message":"Invalid username or password."}. Forced exit.
Tried to get a forecast from SMHI for a place too far from Sweden.
2023-02-19 16:55:45 get smhi forecast:
     Could not get the the forecasts from SMHI. response: 404 b'Requested point is out of bounds'
Pump access via azure login. There was not anything to change this hour.
2023-02-08 10:17:56 main: start.
```

2023-02-08 10:17:56 Get indoor_temp: ['2023-02-08', '10', '20']

request config. Response:200 json len=22

2023-02-08 10:17:56 BEGIN login:

```
response:200 size:151095
2023-02-08 10:17:58 request self asserted:
     response:200 size:16
2023-02-08 10:17:58 set cookie request confirmed cookies:
     size:224
2023-02-08 10:17:58 request confirmed:
     response:200 size:1721
2023-02-08 10:17:58 request token response:
     200 size:3899
2023-02-08 10:17:58 END login:
     auth via azure
2023-02-08 10:17:58 get pump info: thermia api login:
     login-status:online-genesis, Signed in.
2023-02-08 10:17:59 thermia_api_get_heating_effect:
     status:ok. heating effect:21
2023-02-08 10:17:59 Get indoor temp:
     ['2023-02-08', '10', '20']
2023-02-08 10:17:59 set new indoor temp:
     Scheduled temperature: 20
2023-02-08 10:17:59 Set start update:
     hr rate usage:off hr rate temp decr/incr:0 windchill temp usage:off windchill temp incr/decr:0 if new failure this temp:20
2023-02-08 10:17:59 set new indoor temp:
  The same temperature as last time. The pump will not be updated. Temp:20
2023-02-08 10:17:59 Set indoor temp:
     The weekday schema. A scheduled change. Indoor temperature set to:20, hr rate temp decr/incr:0, windchill temp incr/decr:0
2023-02-08 10:17:59 Del start update:
     The update finished.
2023-02-08 10:17:59 main: end.
Hourly rates and windchill active. Temperature increase because of the windchill effect and no decrease because of "paus hour" in hourly rate..
2023-02-08 19:16:18 main: start.
2023-02-08 19:16:18 Get indoor temp:
     ['2023-02-08', '19', '20']
2023-02-08 19:16:18 tcp get indoor temperature:
     status:ok. heating_effect:20
2023-02-08 19:16:18 Get hourly rate:
     ['-', '0', '0']
2023-02-08 19:16:18 Get windchill:
     ['-', '0', '0', '0', '0', '0']
2023-02-08 19:16:18 Set windchill:
 (3) The temperature increase is acceptable. windchill temp:-4.1 diff real windchill:-6.6 pump incr:3
2023-02-08 19:16:18 Get indoor temp:
     ['2023-02-08', '19', '20']
2023-02-08 19:16:18 set new indoor temp:
     The temperature will not be decreased. Pause hour.
2023-02-08 19:16:18 Set start update:
     hr_rate_usage:hour_rate_paus hr_rate_temp_decr/incr:0 windchill_temp_usage:set_hour_windchill_temp_incr/decr:3 if_new_failure_this_temp:23
2023-02-08 19:16:19 tcp_set_indoor_temperature:
     status:ok
2023-02-08 19:16:19 Set indoor temp:
     The weekday schema. No scheduled change. Temperature increase, windchill. Indoor temperature set to:23, hr rate temp decr/incr:0, windchill temp incr/decr:3
2023-02-08 19:16:19 Del start update:
     The update finished.
2023-02-08 19:16:19 main: end.
```

2023-02-08 10:17:57 request auth:

```
2023-02-10 09:39:47 main: start.
2023-02-10 09:39:47 Get indoor temp:
     ['2023-02-10', '9', '20']
2023-02-10 09:39:48 tcp_get_indoor_temperature:
     status:ok. heating effect:22
2023-02-10 09:39:48 Get hourly_rate:
     ['-', '0', '0']
2023-02-10 09:39:48 Get windchill:
     ['-', '0', '0', '0', '0', '0']
2023-02-10 09:39:48 Set windchill:
     (3) The temperature increase is acceptable. windchill temp:-1.0 diff real windchill:-4.5 pump incr:2
2023-02-10 09:39:48 Get indoor_temp:
     ['2023-02-10', '9', '20']
2023-02-10 09:39:48 Del windchill:
 removed. Reason:obsolete-because-manual-set-temp
2023-02-10 09:39:48 set_new_indoor_temp:
 The temperature is manually changed and will thus not be touched. Pump temp:22, last value:20
2023-02-10 09:39:48 main: end.
Last run for today. From a test. The timestamps are not as in real life.
2023-02-10 09:41:56 main: start.
2023-02-10 09:41:56 Get indoor temp:
     ['2023-02-10', '9', '20']
2023-02-10 09:41:56 tcp get indoor temperature:
     status:ok. heating effect:22
2023-02-10 09:41:56 Get hourly rate:
     ['-', '0', '0']
2023-02-10 09:41:56 Get windchill:
     ['-', '0', '0', '0', '0', '0']
2023-02-10 09:41:56 Set windchill:
     (3) The temperature increase is acceptable. windchill temp:-1.0 diff real windchill:-4.5 pump incr:2
2023-02-10 09:41:56 Get indoor temp:
     ['2023-02-10', '9', '20']
2023-02-10 09:41:56 Del windchill:
     removed. Reason: obsolete-because-last-run-of-the-day
2023-02-10 09:41:56 Del indoor temp:
     removed. Reason:obsolete-because-last-run-of-the-day
2023-02-10 09:41:56 set new indoor temp:
 The night starts. A forced temperature changed will be done. Pump temp:22
2023-02-10 09:41:56 set_new_indoor_temp:
  Scheduled temperature: 16
2023-02-10 09:41:56 Set start update:
     hr_rate_usage:off hr_rate_temp_decr/incr:0 windchill_temp_usage:off windchill_temp_incr/decr:0 if_new_failure_this_temp:16
2023-02-10 09:41:57 tcp_set_indoor_temperature:
     status:ok
2023-02-10 09:41:57 Set indoor_temp:
     The common schema. A scheduled change. Indoor temperature set to:16, hr rate temp decr/incr:0, windchill temp incr/decr:0
2023-02-10 09:41:57 Del start_update:
     The update finished.
2023-02-10 09:41:57 main: end.
A run in the night. From a test. The timestamps are not as in real life.
2023-02-10 09:44:43 main: start.
2023-02-10 09:44:43 Get indoor temp:
     ['2023-02-10', '9', '16']
```

A run after a manually set temperature. From a test. The timestamps are not as in real life.

```
status:ok. heating effect:16
2023-02-10 09:44:43 Get hourly_rate:
     ['-', '0', '0']
2023-02-10 09:44:43 get windchill temp adjustment:
  indoor temp:16 < windchill adjust only when set indoor temp is above:18</pre>
2023-02-10 09:44:43 Get windchill:
     ['-', '0', '0', '0', '0', '0']
2023-02-10 09:44:43 Get indoor temp:
     ['2023-02-10', '9', '16']
2023-02-10 09:44:43 set new indoor temp:
  The temperature will not be decreased. The price is not high enough. Hourly-rate:1.242 < hourly_rate_only_decrease_when_rate_above:1.50
2023-02-10 09:44:43 Set start update:
     hr rate usage:off:rate too low=1.2415 hr rate temp decr/incr:0 windchill temp usage:off windchill temp incr/decr:0 if new failure this temp:16
2023-02-10 09:44:43 set new indoor temp:
     The same temperature as last time. The pump will not be updated. Temp:16
2023-02-10 09:44:43 Set indoor temp:
     The common schema. No scheduled change. Indoor temperature set to:16, hr rate temp decr/incr:0, windchill temp incr/decr:0
2023-02-10 09:44:43 Del start update:
     The update finished.
2023-02-10 09:44:43 main: end.
From a test. The timestamps are not as in real life. It is windy enough to increase the temperature but the new scheduled temperature is below the limit for an increase.
There was a windchill increase in the previous hour but that is obsolete now.
2023-02-10 19:04:58 main: start.
2023-02-10 19:04:58 Get indoor temp:
     ['2023-02-10', '19', '21']
2023-02-10 19:04:59 tcp get indoor temperature:
     status:ok. heating_effect:21
2023-02-10 19:04:59 Get hourly rate:
     ['-', '0', '0']
2023-02-10 19:04:59 get_windchill_temp_adjustment:
 indoor temp:17 < windchill adjust only when_set_indoor_temp_is_above:18</pre>
2023-02-10 19:04:59 Get windchill:
     ['2023-02-10', '19', '3', '-1.3', '-5.4', '2']
2023-02-10 19:04:59 Get indoor temp:
     ['2023-02-10', '19', '21']
2023-02-10 19:04:59 Del windchill:
 removed. Reason:scheduled change reset hour obsolete
2023-02-10 19:04:59 set new indoor temp:
  Scheduled temperature: 17
2023-02-10 19:04:59 set new indoor temp:
     The temperature will not be decreased. Pause hour.
2023-02-10 19:04:59 Set start update:
     hr_rate_usage:hour_rate_paus hr_rate_temp_decr/incr:0 windchill_temp_usage:reset_hour windchill_temp_incr/decr:2 if_new_failure_this_temp:17
2023-02-10 19:05:00 tcp set indoor temperature:
     status:ok
2023-02-10 19:05:00 Set indoor temp:
     The common schema. A scheduled change. Temperature reset, windchill. Indoor temperature set to:17, hr_rate_temp_decr/incr:0, windchill_temp_incr/decr:2
2023-02-10 19:05:00 Del start_update:
     The update finished.
2023-02-10 19:05:00 main: end.
Log from hourly rates behaviour.
```

2023-02-10 09:44:43 tcp_get_indoor_temperature:

2023-02-20 16:08:15 main: start.

```
2023-02-20 16:08:15 Get indoor temp:
     ['2023-02-20', '16', '20']
2023-02-20 16:08:15 tcp_get_indoor_temperature:
     status:ok. heating effect:20
2023-02-20 16:08:15 Get hourly_rate:
     ['2023-02-20', '16', '2']
2023-02-20 16:08:15 Set hourly rate:
     Indoor temperature will be decreased by: 2
2023-02-20 16:08:15 Get indoor temp:
     ['2023-02-20', '16', '20']
2023-02-20 16:08:15 set_new_indoor_temp:
     The indoor temperature was already decreased at the last run. It was then decreased by: 2
2023-02-20 16:08:15 Set start update:
     hr_rate_usage:set_hour hr_rate_temp_decr/incr:0 windchill_temp_usage:off windchill_temp_incr/decr:0 if_new_failure_this_temp:20
2023-02-20 16:08:15 set new indoor temp:
     The same temperature as last time. The pump will not be updated. Temp:20
2023-02-20 16:08:15 Set indoor_temp:
     The common schema. No scheduled change. Temperature decrease, hour-rate. Indoor temperature set to:21, hr_rate_temp_decr/incr:0, windchill_temp_incr/decr:0
2023-02-20 16:08:15 Del start update:
     The update finished.
2023-02-20 16:08:15 main: end.
```