



i++: run your FOSS off

Automatically counting laps at the 24 hour run in Leuven

Roel Standaert, FOSDEM 2018



Late October, Tuesday 8pm until Wednesday 8pm



TSD

UL  **SSIS**

+ participating teams

UL SSIS

- Student organisation based in Leuven, Belgium
- IT services for students
- FOSS-minded



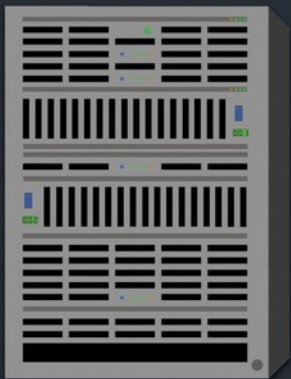
UL SSIS

101 informatica voor iedereen

Hosting voor en door studenten

MySQL PostgreSQL
PHP Git SSH
Haskell MariaDB GitLab
webruimte IRC
SVN Python Backups Ruby ZNC
Bitlbee Perl SFTP E-mail
tt-rss

Cheap
webhosting
for students and
personnel



€ 7/j - 1GB

€ 12/j - 2GB

€ 20/j - 5GB

Meer info: <https://ulyssis.org>

our servers





Hacking into our own servers

Workshops

ULYSSIS
presenteert

Workshop

Woe 15 november om 20u
Celestijnenlaan 200A 00.144



git

inschrijven.ulyssis.org

voor beginners

Deze workshop wordt mogelijk gemaakt dankzij de sponsoring van 

ULYSSIS

Workshoptrack Command-Line Advanced Case I

Di 3 mei om 20u



Celestijnenlaan
200A 00.144

Modern LAMP

inschrijven.ulyssis.org

In samenwerking met het departement computerwetenschappen

Deze workshop wordt mogelijk gemaakt dankzij de sponsoring van  

ULYSSIS
Presenteert

Workshop

Nederlands **English**

Ma 16 okt, 20u
200A 00.144

Wo 9 nov, 20u
Groept T module 11

LATEX

Mon 6 nov, 20h
Group T module 11

For international students


More information:
inschrijven.ulyssis.org

Deze workshop wordt mogelijk gemaakt dankzij de sponsoring van 

ULYSSIS

Workshoptrack Command-Line Advanced Case II

Do 12 mei om 20u





Celestijnenlaan
200A 00.144

Building a Gateway

inschrijven.ulyssis.org

In samenwerking met het departement computerwetenschappen

Deze workshop wordt mogelijk gemaakt dankzij de sponsoring van  

Workshops



OPEN SOURCE JOB FAIR

16 MARCH 2018
LEUVEN, BELGIUM

LOOKING FOR A JOB IN FOSS?

THERE'S A GREAT DEAL OF EXCITING FOSS JOBS IN BELGIUM, BUT SOME FOSS COMPANIES CAN BE HARD TO FIND. COME AND VISIT OUR JOB FAIR ON 16 MARCH 2018 IN THE CENTER OF THE UNIVERSITY CITY OF LEUVEN. NOT JUST EXCITING JOBS IN SYSADMIN AND WEB DEVELOPMENT, BUT ALSO OPEN SOURCE LIBRARIES, VOIP, IOT AND LOTS OF OTHER INTERESTING FOSS DEVELOPMENT TOPICS.

WISH TO PROMOTE YOUR FOSS COMPANY?

OUR JOB FAIR GIVES COMPANIES WITH INTERESTING AND INNOVATIVE FOSS JOBS THE CHANCE TO REACH FUTURE GRADUATS AND YOUNG IT TALENT. IF YOU ARE SUCH A COMPANY AND YOU'RE LOOKING FOR YOUNG FOSS INNOVATORS TO JOIN YOUR RANKS, PLEASE CONTACT US AT JOBFAIR@ULYSSIS.ORG

MORE INFORMATION AT
OPENSOURCEJOBFAIR.BE



dataroots



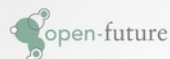
VersaSense



ELIMITY
DATA-DRIVEN COMPLIANCE



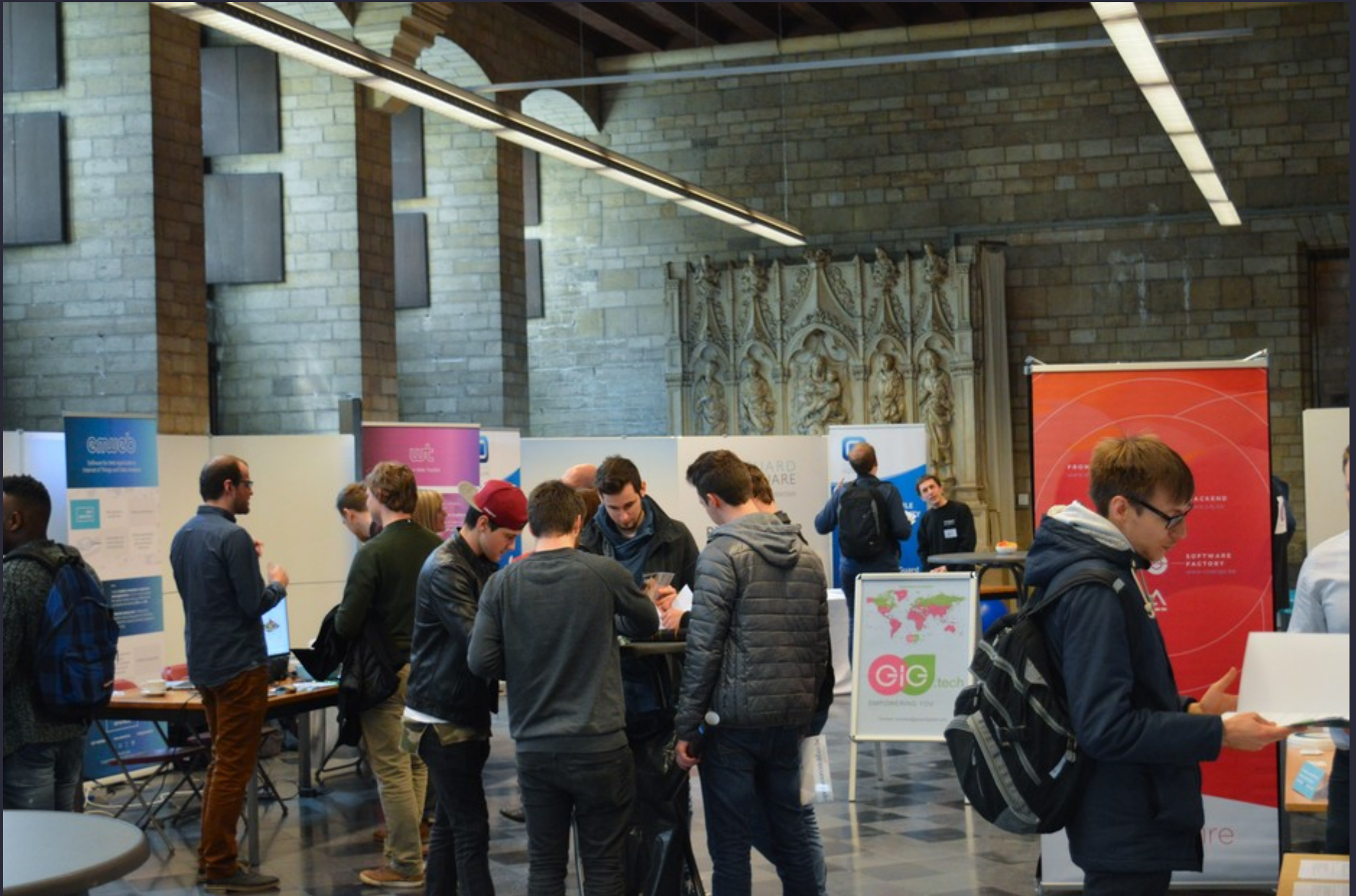
MORE
COMING
SOON



FOSS job fair
Check the
job corner
for more info

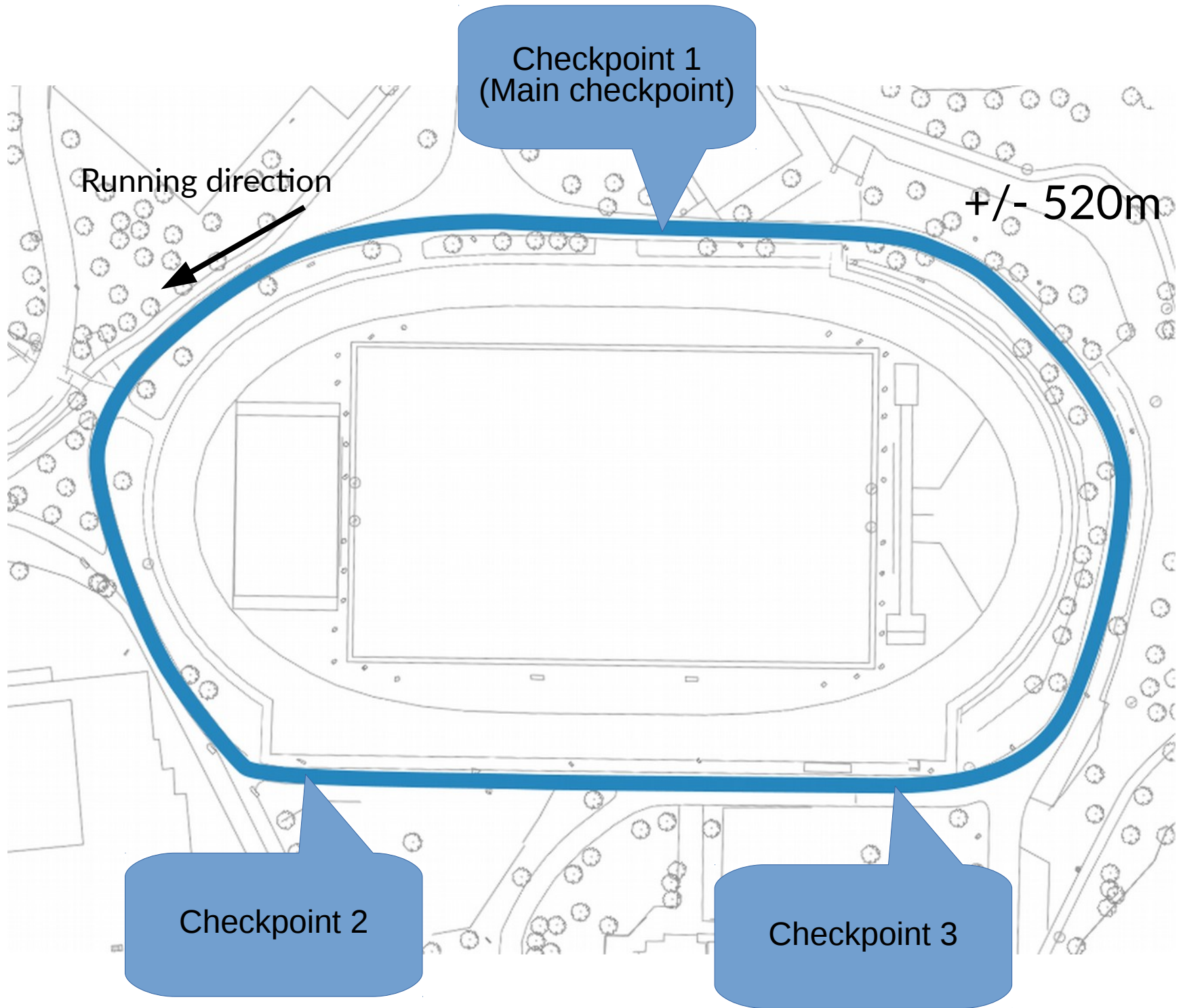
FOSS jobfair

<http://opensourcejobfair.be>



At the 24 hour run

- Network: wired + wi-fi
- Since 2013: lap counting



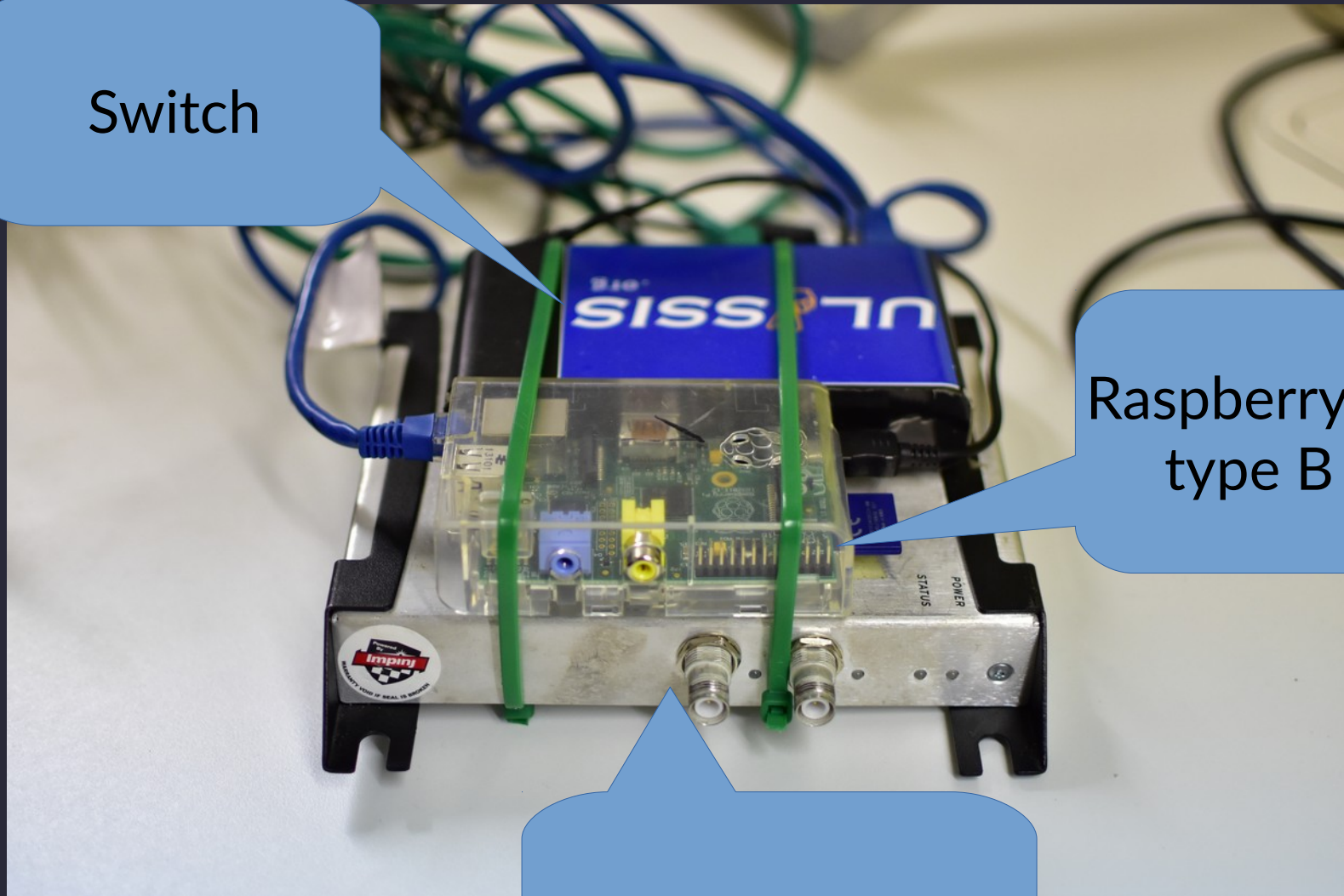
Checkpoint ("reader")



Switch

Raspberry Pi
type B

UHF RFID reader





Main checkpoint





UHF
RFID tags

PVC tubes with handlebar tape



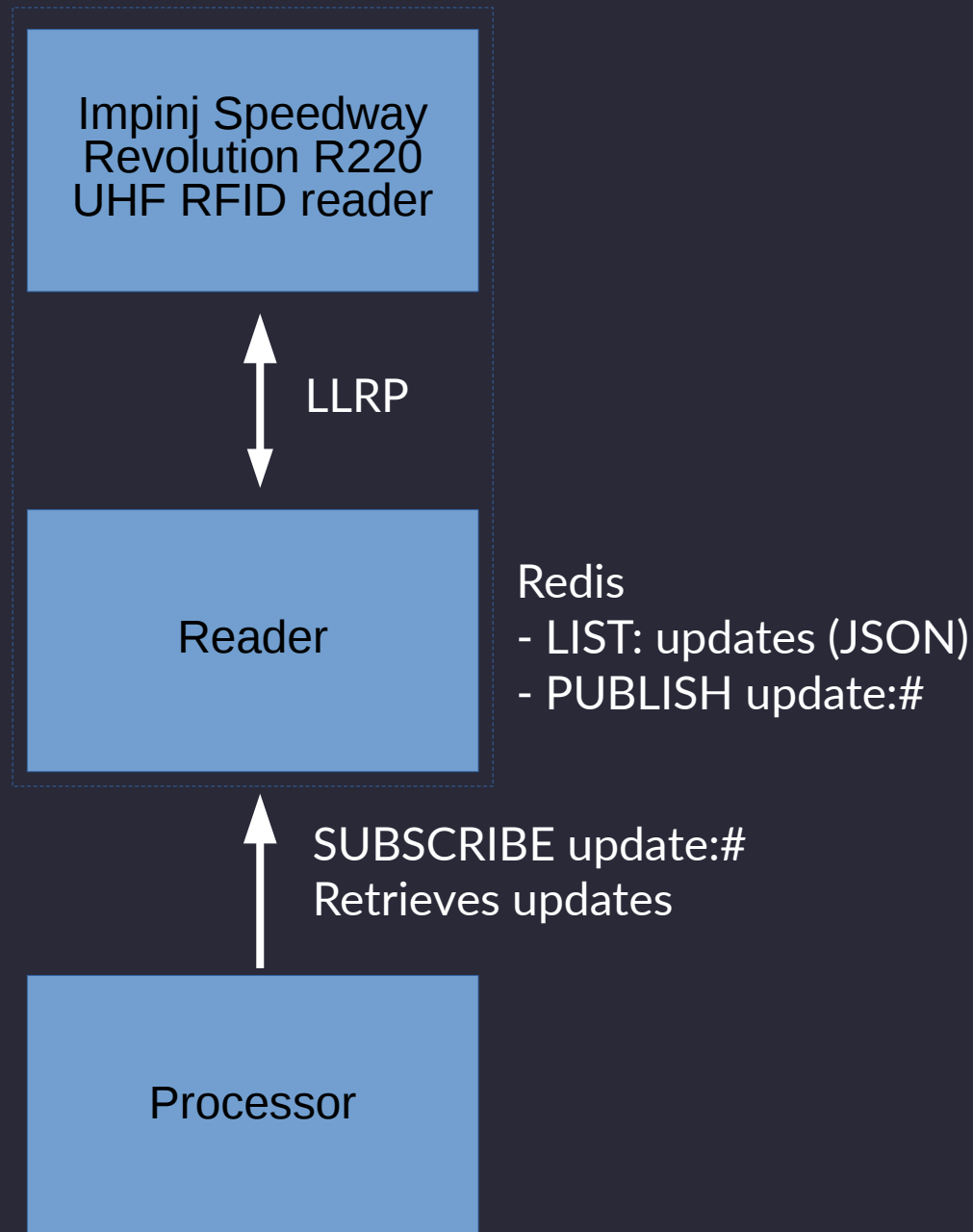
Name and full source code:

`i++`

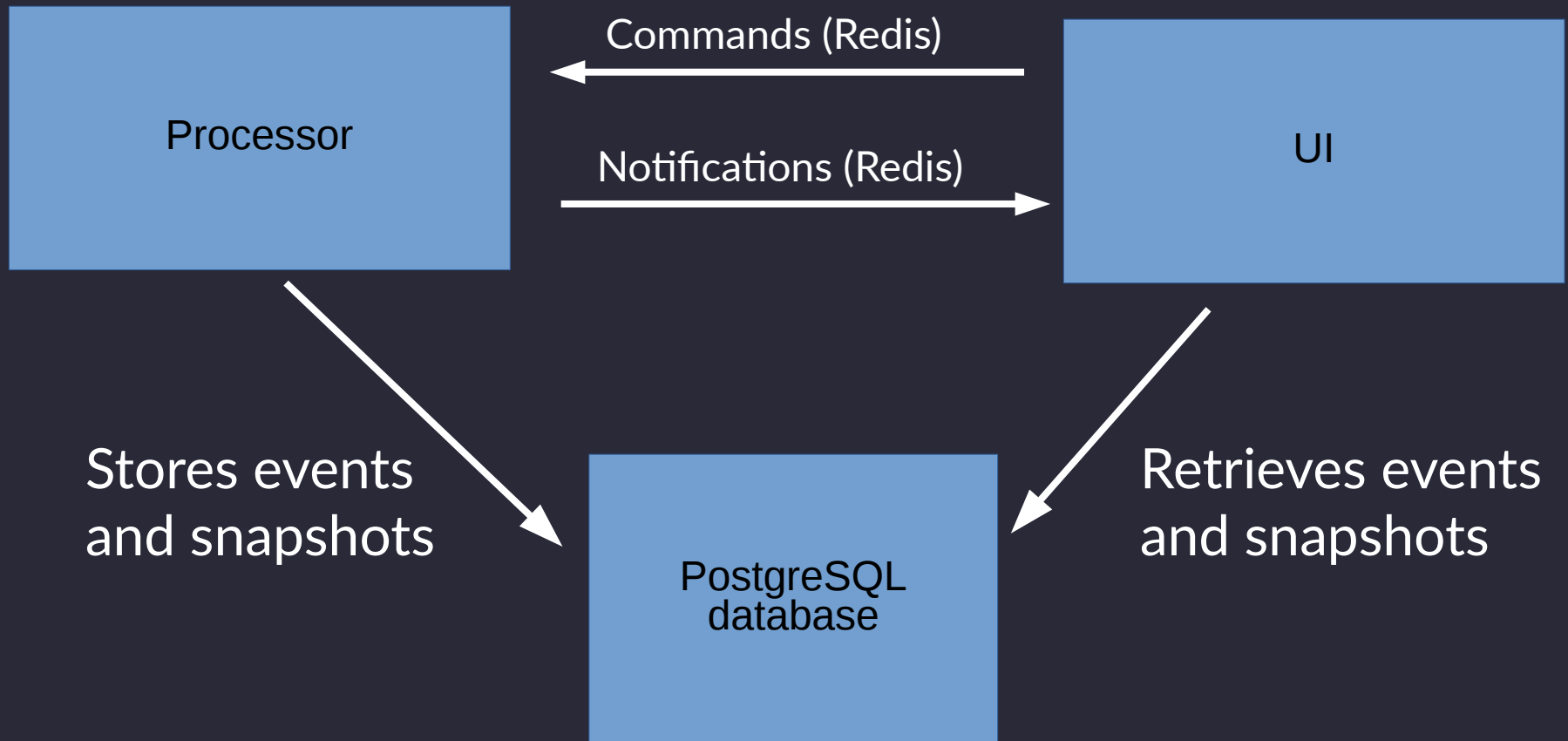
i++

- Written in Java
- Reader
- (Replayer)
- Processor
- UI
- Publisher

Reader + Processor



Processor + UI



UI (using JWt)

Date: 02 February 2018

Time: 23:01:21

Start date: 02 February 2018

Start time: 18:23:53

Show results

Control

Log

Nb. 1	Pos. 2	Name Apolloon	Rounds 198	
Nb. 2	Pos. 4	Name Ekonomika	Rounds 189	
Nb. 3	Pos. 3	Name LBK	Rounds 190	
Nb. 4	Pos. 1	Name VTK	Rounds 199	
Nb. 5	Pos. 8	Name Wina	Rounds 168	
Nb. 6	Pos. 17	Name Enof Leuven	Rounds 123	
Nb. 7	Pos. 16	Name Psychokring	Rounds 151	
Nb. 8	Pos. 13	Name Letteren United	Rounds 154	
Nb. 9	Pos. 7	Name Atmosphere	Rounds 169	
Nb. 10	Pos. 11	Name 4 Speed	Rounds 159	
Nb. 11	Pos. 6	Name Industria	Rounds 172	
Nb. 12	Pos. 14	Name Oker	Rounds 154	
Nb. 13	Pos. 15	Name VRG	Rounds 153	
Nb. 14	Pos. 12	Name Politika	Rounds 158	
Nb. 15	Pos. 18	Name Run for Specials	Rounds 104	
Nb. 16	Pos. 5	Name Medica	Rounds 186	
Nb. 17	Pos. 9	Name Pedal	Rounds 167	
Nb. 18	Pos. 10	Name Lerkeveld	Rounds 167	

Date: 02 February 2018

Time: 23:02:42

Start date: 02 February 2018

Start time: 18:23:53

Show results

Control

Current message:

Set message

Current status: NoResults

NoResults

Set status

Safety Start

Safety Stop

Log

Log

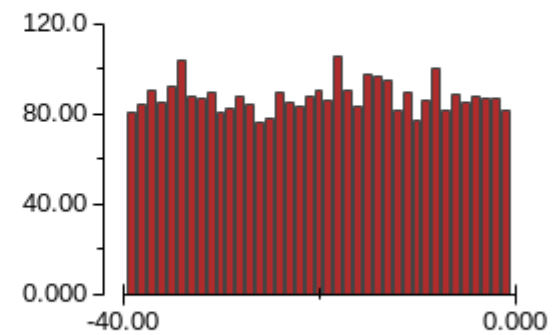
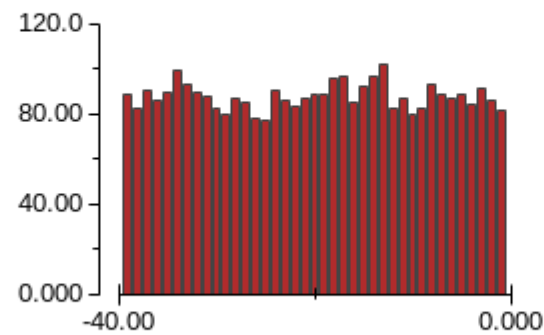
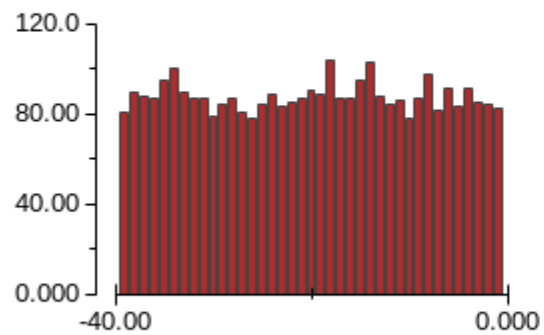
Nb. **1** Pos. **2** Name **Apolloon** Rounds **199**



Charts

Tags

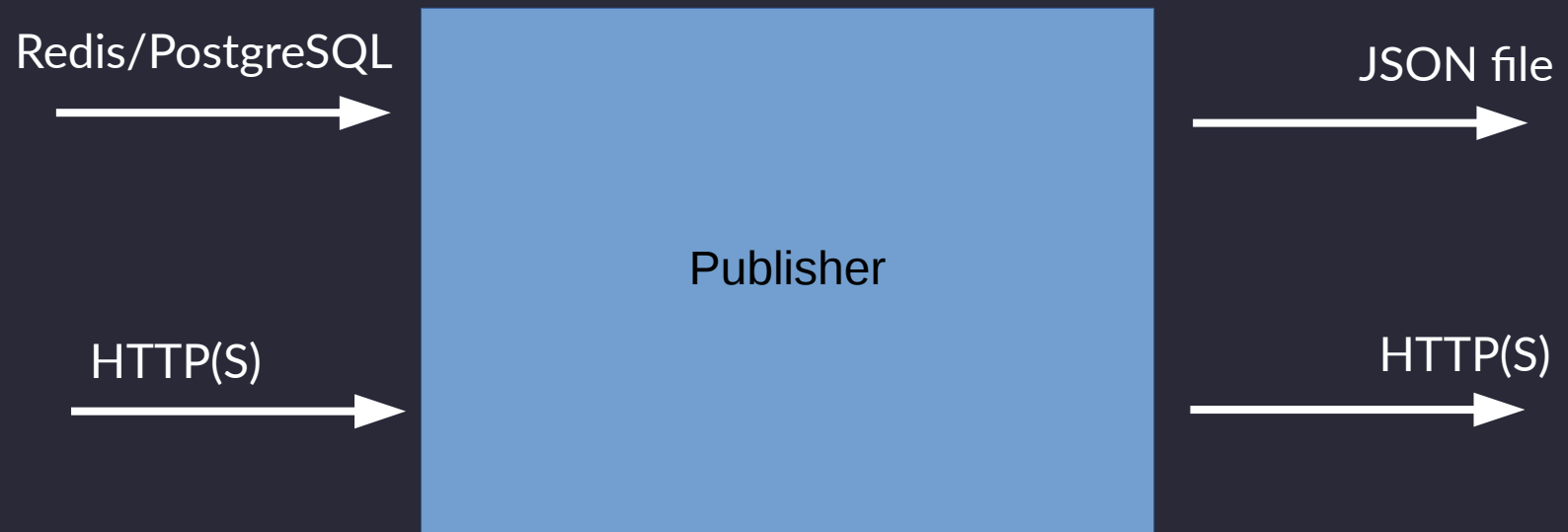
Corrections



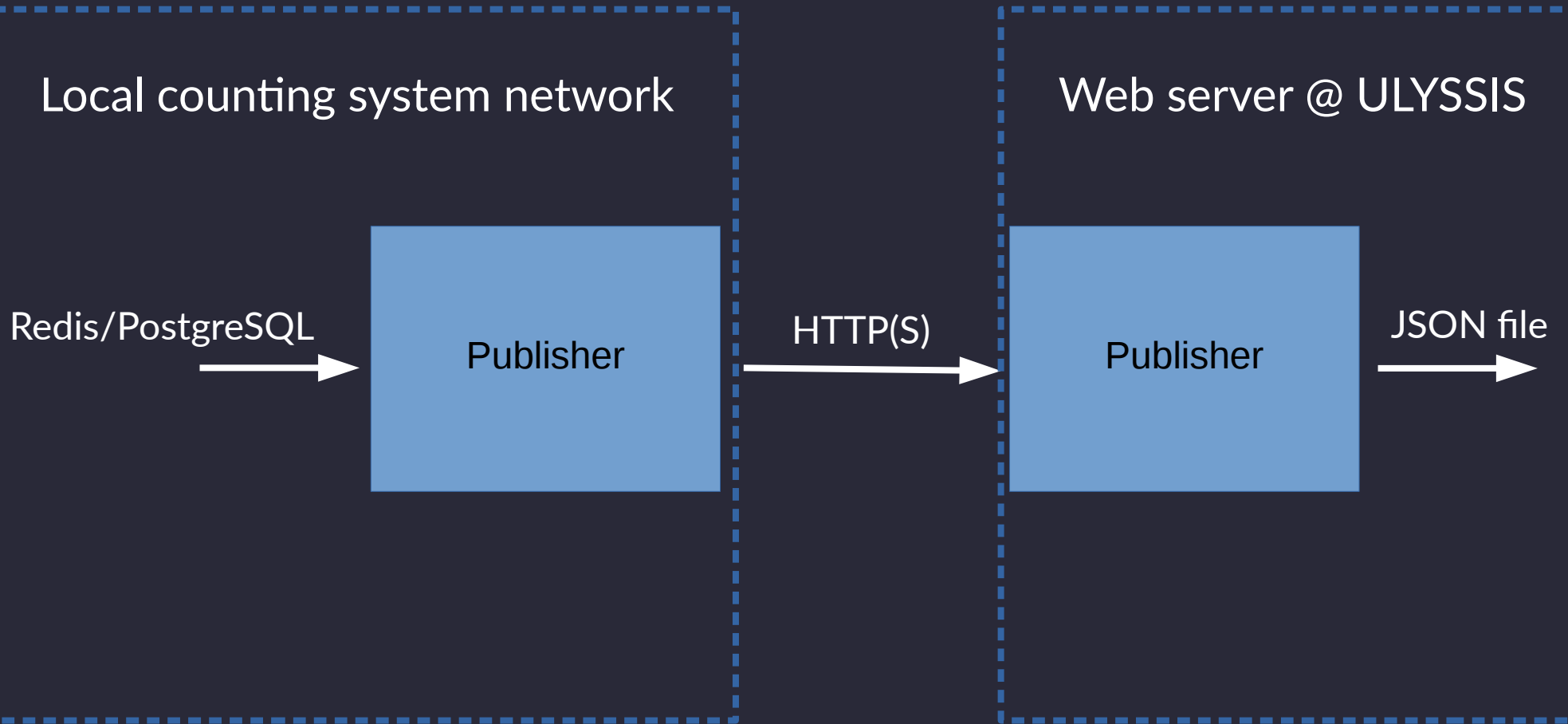
Nb. **2** Pos. **4** Name **Ekonomika** Rounds **190**



Publisher



Publisher



http://24urenloop.be



1. VTK	1061
2. Apolloon	1052
3. Ekonomika	1007
4. LBK	1000
5. Medica	973
6. Industria	929
7. Wina	893
8. VRG Crimen	893
9. Lerkeveld	862
10. Tripel Hop	862
11. Atmosphere	850
12. OKeR UCLL	825
13. Pedal	824
14. Psychokring	811
15. Underdogs	806
16. Politika	785
17. Triomphe	768
18. Run for Specials	508

De editie van 2017 zit erop. Hiernaast de eindstand.



minuten
te gaan

15709

rondjes
gelopen

19u30 - 20u30	Stadswacht
20u00	Startschot door Rector Luc Sels
20u30 - 22u00	Lucky 7's & Friends
8u00 - 8u30	Industria - Cope
8u30 - 9u00	Medica - Toon Vanspringel
9u00 - 9u30	Apolloon - DJ Lennow
9u30 - 10u00	Atmosphere - Vhest
10u00 - 10u30	Ekonomika - Døge
10u30 - 11u00	LBK - Vince 'n Vixx
11u00 - 11u30	Triomphe - Mr. Johnson
11u30 - 12u00	OKeR UCLL - Vikteur Trakteur
12u00 - 12u30	Underdogs - The Nephews
12u30 - 13u00	Pedal - Henky
13u00 - 13u30	VRG Crimen - Michiel Fierens
13u30 - 14u00	VTK - DJ SMAES
14u00 - 14u30	Wina - DJ Stijn
14u30 - 15u00	Politika - Musa
16u00 - 16u30	DJ Contest Finale
17u30 - 19u00	The Pixels
20u00	Prijzuitreiking



Kallyn Perez Retweeted
Koen Spliet @KoenSpliet
2,5 ronden voor op LBK, op naar die derde plaats
@EkonomikaLeuven #24urenloop #Ekonomika #derdeplaats
Oct 22, 2014

Tamara Fuller Retweeted
Lore Coppens @LoreCoppens
Burgi gepakt #24urenloop
Oct 23, 2012



Static HTML + JavaScript updating every 3 seconds



2013 (not working)



2014 (flawless)



Despite the weather



2015



2017

Not the only N hour run

- Antwerp: 10 hour run
(also counted by ULYSSIS)
- Ghent: 12 hour run
(by our friends of Zeus WPI)
- Even my home town of
Merksplas!

What if everyone could easily and cheaply organize events like this?

Problems with this system

- Not user-friendly enough
 - ⇒ Someone who can install a blog on shared hosting should be able to do it
- Relatively expensive
 - ⇒ Use BLE: iBeacon/Eddystone/... in baton, checkpoints: old or cheap Android phones?
- Specialized for trusted LAN
 - ⇒ Redis not suitable

Thank you!

Want to contribute or organizing something similar?

<https://github.com/ULYSSIS-KUL/ipp>